CURTIS'S

BOTANICAL MAGAZINE;

OR,

Flower-Garden Displayed:

IN WHICH

The most Ornamental FOREIGN PLANTS, cultivated in the Open Ground, the Green-House, and the Stove, are accurately represented in their natural Colours.

TO WHICH ARE ADDED,

Their Names, Clafs, Order, Generic and Specific Characters, according to the celebrated LINNÆUS; their Places of Growth, and Times of Flowering:

TOGETHER WITH

THE MOST APPROVED METHODS OF CULTURE.

A W O R K

Intended for the Ufe of fuch LADIES, GENTLEMEN, and GARDENERS, as wifh to become feientifically acquainted with the Plants they cultivate.

BY JOHN SIMS, M.D.

FELLOW OF THE ROYAL AND LINNEAN SOCIETIES.

VOL. XLI.

The FLOWERS, which grace their native beds, Awhile put forth their blufhing heads, But, e'er the close of parting day, They wither, shrink, and die away : But THESE, which mimic skill hath made, Nor fcorched by funs, nor killed by shade, Shall blush with less inconstant hue, Which ART at pleasure can renew. LLOYD.

L O N D O N:

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[1682]

Convolvulus purpureus (d.) varius. Striped-flowered Bindweed.

Class and Order.

PENTANDRIA MONOGYNIA.

Generic Character.

Cor. campanulata, plicata. Stigm. 2. Capf. 2-locularis: loculis dispermis.

Specific Character and Synonyms.

CONVOLVULUS purpureus; (volubilis) foliis cordatis indivifis, fructibus cernuis, pedicellis incraffatis. Willd. Sp. Pl. 1. p. 852. Bot. Mag. N^{is.} 113 et 1005.
 (d.) varius; corollis albis cæruleo-ftriatis.

PHILIP MILLER remarked that there were three or four permanent varieties of this fpecies, which he had not found to change by cultivation. He enumerates one with white, another with red, and a third with pale blue flowers and white feeds. The variety figured at No. 1005 of this work is ftill more remarkable than any of thefe, and has been publifhed by JACQUIN in his Hortus Schoenbrunenfis, v. 3. pl. 261, as a diftinct fpecies, under the name of IPOMCEA *difcolor*. WEINMANN, in his Phytanthozaiconographia, vol. 2. tab. 414 and 415, has figured four varieties, one of which has a confiderable refemblance to our prefent plant, having blue and white flowers with five red bands; but the colours are not fo neatly defined, being rather in blotches than ftripes.

The Honourable WILLIAM HERBERT communicated the fpecimen from which our drawing was taken, with a remark that he had raifed it from feeds for five generations, without obferving any difposition in it to change its characters. We have however feen fome flowers all white, and in a bed of them

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at Mr. KNIGHT's exotic nurfery, during the prefent fummer, a flower of the usual purple colour upon the very fame stem with others like our drawing. This observation is decisive with respect to its claim to be confidered as a distinct species.

Mr. HERBERT informs us, that it ripens feeds freely in the greenhoufe, but not fo readily in the open ground. This gentleman received the feeds from Cadiz. Requires the fame treatment as the other varieties.

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[1683]

OXALIS VARIABILIS, *var.* ALBIFLORA. WHITE-FLOWERED VARIABLE WOOD-SORREL.

Class and Order.

DECANDRIA PENTAGYNIA.

Generic Character.

Cal. 5-phyllus. Petala 5, unguibus connexa. Stam. inæqualia: 5 breviora exteriora, basi connata. Capf. angulis dehiscens, 5-gona.

Specific Character and Synonyms.

- OXALIS variabilis; acaulis, fcapo unifloro foliis longiore flaccido, foliis ternatis fubrotundis, folio intermedio cuneiformi, ftylis ftaminibus exterioribus brevioribus. Willd. Sp. Pl. 2. p. 777. Jacq. Oxal. 89. t. 52 et 53.
- (y.) albiflora; scapis petiolorum longitudine, limbo corollæ magno albo.
- OXALIS purpurea (3.) foliis totis viridibus, limbo albo. Thunb. Oxal. n. 8. p. 13.

OXALIS grandiflora. Jacq. Oxal. n. 68. t. 54.?

In the colour and fize of its flowers, our plant corresponds with the grandiflora of JACQUIN, which is probably only a variety of variabilis. The red colour on the under furface of the leaves, according to JACQUIN himfelf, is not conftant.

We regret, that not having feen the individual plant from which our drawing was taken, we had no opportunity of examining the proportionate length of the ftyles and ftamens, which JACQUIN confiders as a very important and conftant character. We received however two pots of OXALIS variabilis, one with red, the other with white and pale flowers, from Meffrs. LODDIGES; many of the flowers of which we examined with care, but were much difappointed to find that the fituation of the ftigmas feemed to vary according to circumftances; fometimes they were placed below the lower feries of anthers, more more frequently between the two feries, and now and then in faded flowers above both.

To us it appeared that, if examined in a very early flate, the two feries of anthers were packed clofe together one upon the other, and the fligmas were feen in the middle, even with the upper ones; but that in a little time the longer flamens fhot above them, and the fligmas paffed out between the filaments, and were then found above the lower and under the upper feries of anthers, and when the days were cold, this feemed to be their permanent fituation; but when the fun fhone and the day was warm, or from fome unknown circumflance, the fhorter filaments likewife fhot up above the fligmas, and thefe were found below both feries of anthers. It feemed too that the flyles fometimes began to grow after the filaments had ceafed to do fo, and fhot up beyond the longeft flamens; but it was only in faded flowers that we found the fligmas in this fituation, and not often in thefe.

We had no reafon whatever to fuppofe that there could be different fpecies in the fame pot; yet, when we find fo experienced a Botanist as JACQUIN, afferting that he had paid the greatest attention to this subject for five successfue years, and had examined a thousand individuals without finding the character vary, in the same species, in a single instance, we hestitate to put the same confidence in our few experiments, as we should otherwise have done, and must leave it to farther investigation.

Our drawing was made at Mr. WILLIAM GRIFFIN's, South-Lambeth, in July laft.



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[1685]

DORYANTHES EXCELSA. GIGANTIC DORYANTHES.

Class and Order.

HEXANDRIA MONOGYNIA.

Generic Character.

Cor. supera, sexpartita decidua. Filam. basi laciniis adnata, iisque breviora. Antheræ erectæ, tetragonæ, basi cavæ extinctoriisformi affixæ. Capsula.

Specific Character and Synonyms.

DORYANTHES excelfa. Correa in Lin. Soc. Trans. v. 6. p. 211. tab. 23 et 24. Brown Prod. p. 298. Hort. Kew. ed. alt. 2. p. 303.

This magnificent plant, of the liliaceous tribe, flowered laft fummer in the greenhouse of the Right Hon. CHARLES LONG, at Bromley-Hill, in Kent; probably for the first time in Europe, except the fingle flower produced from a portion of the stem, without roots, which had been cut many months before in New-Holland, and from which chiefly M. CORREA established the genus.

From this plant we sketched the following brief description. Radical leaves about a hundred, four feet long, sword-shaped, fmooth, quite entire, with a very narrow cartilaginous margin, lower ones recurved, the others erect. From the centre of these grew the stem, or scape, quite straight, ten or twelve feet high, clothed with linear-lanceolate acute leaves fheathing the stem at their base and spreading upwards. Flowers of a deep crimson or morone colour, collected in a roundish terminal head, furrounded at the base by large, ovate-acuminate, green brattes; within there were other lanceolate bractes, of the fame colour with the flowers, and separating these into fascicles of two, three, or four ; two still narrower bractes accompanied each individual flower the length of the germen and peduncle. Lacinize of the corolla fix, tongue-shaped, obtuse with a nipped point. Filaments fubulate, shorter than the corolla, to which they are adnate or foldered foldered at the lower part : Anthers the length of the free part of the filament, erect, four-cornered, hollowed at the bafe and affixed over the point of the filament like an extinguisher, covered with a dark green pollen. Germen straight, obscurely three-cornered : Style three-furrowed : Stigma three-lobed.

In the figure of the flower given in the Transactions of the Linnean Society, the germen is very much curved, which does not feem to be natural to the plant.

We were informed that the ftem began to fhoot the preceding fummer, and reached to the height of three or four feet; that then, the winter coming on, it remained quiefcent till the following fpring, when it again refumed its growth, and the flowers began to expand by the end of July.





[1686]

DELPHINIUM GRANDIFLORUM. GREAT-FLOWERED LARKSPUR.

Class and Order.

POLYANDRIA TRIGYNIA.

Generic Character.

Cal. O. Petala 5. Nectar. 2-4-fidum, postice cornutum. Siliquæ 3 seu 1.

Specific Character and Synonyms.

DELPHINIUM grandiflorum; (tricapfulare) nectariis tetraphyllis: labellis orbiculatis fubbarbatis: unguibus appendiculatis, foliis lineari-multipartitis.

DELPHINIUM grandiflorum; nectariis diphyllis: labellis integris, floribus fubfolitariis, foliis compositis lineari-multipartitis. Sp. Pl. 749. Willd. 2. p. 1228. Miller. Ic. 2. p. 167. t. 250. f. 1.

DELPHINIUM lusitanicum glabrum, aconitifolio. Roloff Hort. Krausian. 61. t. 3.

DESCR. Root perennial. Stem erect, finooth, fomewhat angular, and dichotomoufly branched. Radical leaves multipartite: fegments narrow, channelled, pale underneath; lower cauline leaves fimilar; floral 2-3-partite, or even fimple. Flowers alternate on peduncles varioufly lengthened, diftant, of a fine azure colour fpotted with a dull red. Petals nine in two feries: five outer ones ovate, four of them equal, the upper one larger and lengthened behind into a rugofe fpur with a bifid point: of the four inner petals (nectarium) two are very fmall, flefhy, upright, rigid, channelled: two are nearly orbicular, with an oblique claw, at the bafe of which is a fmall hooked appendix; thefe are reflected fo as to cover completely the organs of fructification, and and are ornamented near the claw with a yellow flightly bearded fpot. Stamens many: filaments flat, narrowed upwards, and reflexed: anthers ovate, attached by the back, black with white pollen. Germens three, approximate, filky. Capfules three, erect, villous.

In the common Larkspur (Delphinium Confolida) the four petals of the nectarium are united into one and terminate behind in a spur sheathed by that of the upper petal: in all the species these parts vary materially in form and number. In this and the related genus ACONITUM, JUSSIEU confiders the outer petals as calyx, and gives the name of petals to what LINNÆUS calls *nectaria*.

A double variety of this fpecies is very common in our gardens, and much admired for the fplendid blue colour of its flowers. But the plant in its natural fingle ftate has been a defideratum, and has been only lately introduced from Ruffia, by Meffrs. WHITLEY, BRAME, and MILNE, of the Fulham Nurfery. We have likewife feen it at the Exotic Nurfery, King's-Road. Native of Siberia; a hardy perennial-; propagated by parting its roots and by feed.





[1687]

NARCISSUS VIRIDIFLORUS. GREEN AUTUMNAL JONQUIL.

Generic Character .- Vide Nis. 924, 925.

Specific Character and Synonyms.

NARCISSUS viridiflorus; (uni-pluriflorus; filam. adnata; anth. 3 tubo, 3 corona incluse;) foliis uno-pluribusve, junceis, tereti-attenuatis, fistulosis, lævibus, scapo simili subisometro tardioribus; pedicellis inæqualibus, erectis, a brevioribus ad pluries tubo longiora; corolla geniculato-nutante; germine tubo pluries breviore; limbo stellato, laciniis divaricatis, æqualibus, linearibus, attenuatis, planis, tubo brevioribus; corona brevissima, cupulato-rotata, fexcrenatoincisa, fegmentis obtus, subemarginatis. G.

NARCISSUS viridiflorus; Schoufboe. Marok. in det danfke videnfkabers-felfkabs fkrivter. 1800. 157. tab. 2. Id. germanice a Markuffen. 142. tab. 2. Roth. neue beytr. zur Botan. th. 1. 189. Id. anglice a Kænig & Sims, in Ann. Bot. 2. 26.

NARCISSUS juncifolius autumnalis flore viridi. Park. Parad. p. 94. tab. 93. fig. 6.

DESCR. Bulb roundiffi with brown membranous coverings; leaves 1 to feveral, a foot or more long, as well as the fcape nearly of the fame fize as in the common garden Jonquil; fpathe lanceolately convolute, and (in fpecimens that have feveral flowers) fhorter than the longer peduncles; corolla and crown of an uniform alfi-green colour, fegments about fix lines long and one broad; flyle even with the longeft ftamens; ftigmas 3; fcent like that of the common Jonquil.

PARKINSON, by whom this rare and fingular coloured fpecies was cultivated amongft us nearly two centuries back, has been the first to record it. Subsequently to him, we do not find that it has been noticed, until enrolled under its prefent title in "The Observations on the Vegetables of Morocco" by Mr. SCHOUSBOE, a Danish Botanist, who found it growing spontaneously fpontaneoufly on the Coast of Barbary and on the "neutral ground," between Gibraltar and St. Roque, in 1794-3. Its natural feason of flowering, like that of NARCISSUS ferotinus, (a species from the same parts and of nearly similar œconomy) is the latter-end of autumn. In ferotinus the corolla is white, fegments elliptically lanceolate, crown orange-coloured, leaves linear, channelled, fcape striate, and somewhat edged. Like viridisforus, it has disappeared in our gardens, although it seems to have been the more generally known of the two, and was still in them in the time of MILLER. The specimen from which our present drawing was made, had been imported from Spain, by Dr. THOMPSON, and flowered this summer, for the first time, in Mr. GRIFFIN's collection, at South-Lambeth. G.

NOTE.

NARCISSUS TRILOBUS. Supra No. 945.

In the fecond edition of the Hortus Kewenfis, this plant appears under the fpecific name of *nutans*, with a note that denies its being the *trilobus* of LINNEUS. We fhall not arraign the reafoning, on which the denial is founded; our friend, the excellent and learned writer of it, is now no more. We fhall only ftate, that we know that he had never feen the plant; and that its identity with *trilobus* had been determined by comparison with the fpecimen of that fpecies in the Linnean Herbarium. To any one who faw the plant, we are perfuaded the defcription contained in the "Species Plantarum," would alone decide the point. Although LINNEUS calls it *trilobus*; he fays in the fpecific character, that the crown is "fubtrifid," and in the appended note "obfcurely trifid and quite entire." G.

ERRATUM.

No. 1301. verf. fol. We have omitted in the Enumeration of the Species of NARCISSUS: N. Tazzetta, No. 925; which should be inferted. G.

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Pub. Be of Cuthe Walnorth Dec. 1. 1819

F. M. in

[1688]

SESAMUM INDICUM. INDIAN SESAMUM, or Oily-grain.

Class and Order.

DIDYNAMIA ANGIOSPERMIA.

Generic Character.

Cal. 5-partitus. Cor. campanulata, 5-fida: lobo infimo majore. Rudimentum *filamenti* quinti. Stigma lanceolatum. Capf. 4locularis.

Specific Character and Synonyms.

SESAMUM indicum; caule erecto, foliis ovato-lanceolatis integris vel lobatis, pedunculisque suboppositis.

 SESAMUM indicum; foliis ovato-lanceolatis: inferioribus trilobis; fuperioribus indivifis, caule erecto. Willd. Sp. Pl. 3.
 p. 359. Hort. Kew. ed. alt. 4. p. 52. Mart. Mill. Dict. Synonyma tamen plura fub orientale petenda.

VANGLO or Oil Plant. Brown Jam. p. 270.

SESAMUM. Matthiol in Diosc. lib. 2. cap. 92. Dod. Pempt. 522.
 Lob. Obs. 514. Ic. 2.63. Ger. emac. 1232. Dalech. Hist. 483.
 SESAMUM indicum. Rumph. Amb. v. 5. p. 20. t. 76. f. 1.

SESAMUM foliis inferioribus trifidis dentatis, superioribus oblongis serratis. Brown Jam. 270.

SESAMUM alterum foliis trifidis orientale, femine obscuro. Pluk. Alm. 344. Phyt. t. 109. f. 4.

SESAMUM indicum and orientale appear to have their fynonymy extremely confused. Of the older figures in wood, those which we have quoted are all copied from the original one of MATTHIOLUS; and appear to us properly to belong to this species, though generally referred to orientale, of which we know of no representation but that in the Hortus Malabaricus and the one in wood in CAMERARIUS'S Hortus copied by PARKINSON, and diminutively by JOHN BAUHIN.

RUMPE

RUMPF defcribes the leaves to be three-lobed at the bottom of the plant, ferrated in the middle, and quite entire or only finuate at the upper part; but acknowledges that, in all thefe refpects, they are fubject to vary; their form feems therefore to be of little ufe in determining the fpecies. The lower leaves of our plant were three-lobed. In the Hortus Malabaricus SESAMUM orientale is drawn with leaves and peduncles alternate; in all the figures which we have quoted, as fynonyms of our plant, they are oppofite, as they have been in all the genuine fpecimens that we have feen, except a little occafional deviation, and even then the difpofition to remain oppofite has been very evident.

Both this fpecies and *orientale* are much cultivated in Egypt, and in the Eaft and Weft-Indies, for the fake of the oil procured from the feeds, which is of the most extensive use, and is said to grow more mellow and agreeable with age.

Our drawing was made from a weak plant which flowered at Mr. VERE's, of Kenfington-Gore, in August 1813. The sketch of the feed-vessel was added last summer from a much stronger plant which grew quite erect, the produce of the same feeds. It is a tender annual, requiring to be raised and invigorated by renewed hot-beds, to bring it to perfection in this country.

RUMPF mentions two varieties of SESAMUM indicum, one with white the other with black feeds; we are informed by Mr. ANDERSON, that the feeds of our plant are of a yellowifh white colour, and were fent from Jamaica under the name of VANGALOSA.





[1689]

Cosmea lutea. Yellow-flowered Cosmea.

Class and Order.

SYNGENESIA POLYGAMIA FRUSTRANEA.

Generic Character.

Recept. paleaceum. Sem. tetragona. Pappus 2- feu 4-aristatus. Cal. duplex, uterque monophyllus octopartitus. Cosmos. Cav. Ic.

Specific Character.

COSMEA lutea; foliis pinnatis bipinnatifidisque : pinnis serratis subdecurrentibus, radio paucifloro neutro.

Our drawing of this undefcribed fpecies of COSMEA was taken at the garden of the Right Hon. Lord HOLLAND, in November 1812. His Lordfhip, we were informed, brought the feeds with him from the Botanic Garden at Madrid, under the name which we have adopted. A native of Mexico. A tender annual, requiring to be forced early in the fpring to bring it into flower foon enough to mature its feeds before the winter; for want of which, it is probably already loft to this country.



[1690]

THALIA DEALBATA. MEALY THALIA.

Class and Order.

MONANDRIA MONOGYNIA.

GYNANDRIA MONANDRIA. Pur/b.

Generic Character.

Anthera fimplex, ovata, filamento proprio depressioni inixa. Stylus brevis, ab anthera deflexus. Stigma perforatum ringens. Bacca monosperma. Semen evitellosum.

Specific Character and Synonyms.

- THALIA dealbata; panicula albido-pulverulenta, fpathis bifloris, foliis ovatis apice revolutis. Pursh Fl. Amer. Sept. 584.
- THALIA dealbata; calyce bifloro, culmo arundinaceo pulverulento, foliis apice revolutis. Rofcoe in Lin. Soc. Tranfact. 8. p. 342. Hort. Kew. ed. alt. 1. p. 3.

THALIA? dealbata. Fraser, single plate.

We received a very fine fpecimen of this beautiful plant in flower, feveral years ago, from our friend THOMAS FURLY FORSTER, Efq. but we could not make it expand any of the buds, though covered with a bell-glafs and a bright fun; and confequently, from the fugitive nature of the bloffom, we could not at that time get a drawing made of it. This fpecimen, however, afforded us the opportunity of obferving that the *anther* burft, and difcharged its globular *pollen*, before the expanfion of the flower, and whilft it was clofely embraced by the membranous fligma. This accounts for the circumftance, mentioned in the generic character, of the flyle being bent away from the anther; for this organ having already fhed its pollen, could could be of no further use. At every joint of the peduncle is a purplish-coloured concave bracte, which drops off before the flower is fully opened.

This elegant aquatic is generally confidered as a flove plant, and may probably require that affiftance to bring it into bloffom; but, being a native of the fwamps of South-Carolina, we prefume it would be better to preferve it in the greenhoufe through the winter, and remove it into the bark-flove at its feafon of flowering.

JUSSIEU includes THALIA in the natural order of Scitamineæ, which he calls Cannæ; but Mr. ROBERT BROWN has feparated a fmall portion of thefe plants into a diffinct order, under the name of Canneæ; retaining that of Scitamineæ for the reft. The Canneæ of BROWN, confift of the following genera; Canna, Maranta, Thalia, Phrynium, and perhaps Myrofma; and are diftinguished from the true Scitamineæ, by their simple anther, by the defect of a vitellum in the feed, and by their possifing no aroma at all, or at most a very weak one.

Flowers in July and August. Our figure was taken from a plant communicated by Mr. KNIGHT, of the Exotic Nursery.





[1691 **]**

BRASSIA MACULATA. SPOTTED-FLOWERED BRASSIA.

Class and Order.

GYNANDRIA MONANDRIA.

Generic Character.

Labellum explanatum, indivisum. Petala patula, distincta. Columna aptera. Massa pollinis 2, postice bilobæ; medio affixæ processu communi stigmatis. BROWN in Hort. Kew.

Specific Name.

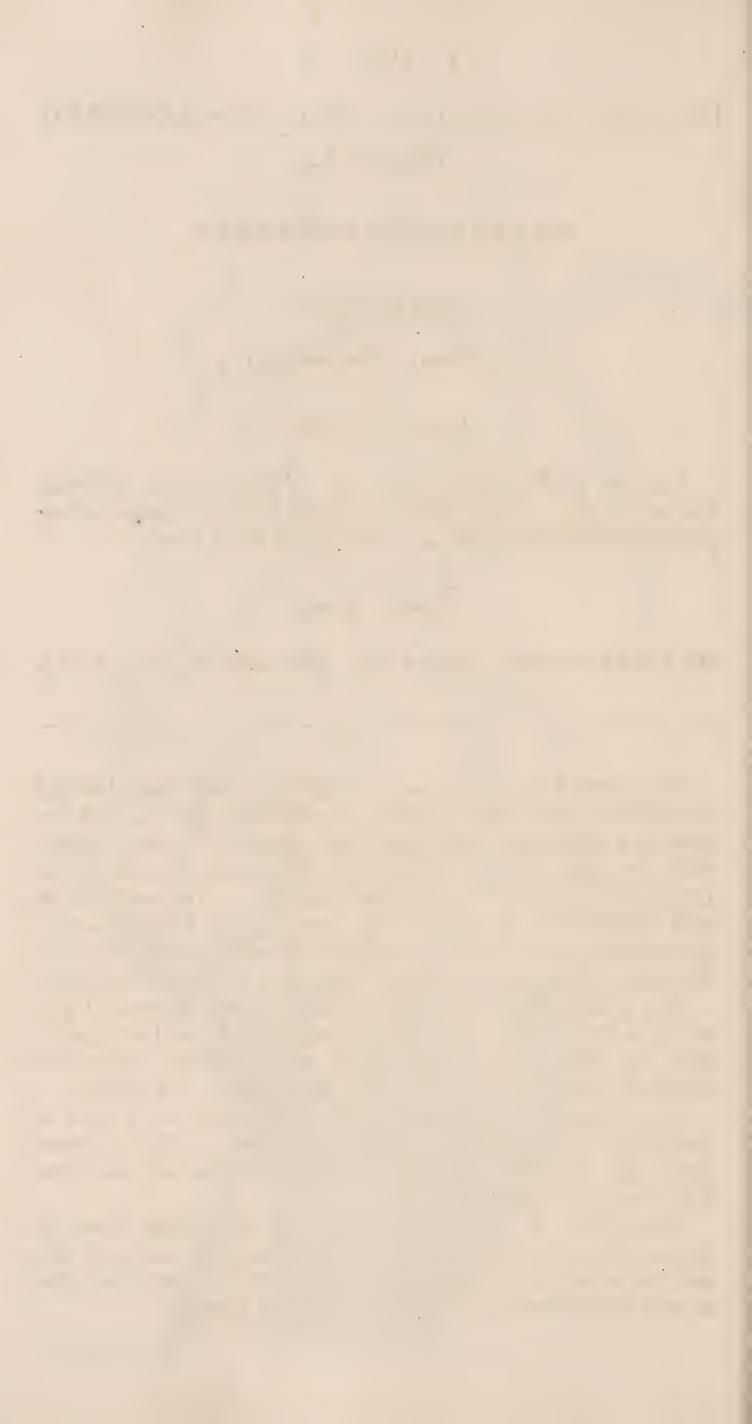
BRASSIA maculata. Brown Mff. Hort. Kew. ed. alt. 5. p. 215.

The genus EPIDENDRUM, as originally conftituted, through the difcovery of a great number of additional fpecies, had become not only too cumberfome, but contained fo many plants, with the parts of fructification fo differently framed, as to require being feparated into diffinct genera; a tafk undertaken, with confiderable fuccefs, feveral years ago, by Prof. SWARTZ, and which has been farther elucidated by the labours of ROBERT BROWN, Efq. in the new edition of AITON's Hortus Kewenfis.

Our prefent plant is placed by Mr. BROWN between CYM-BIDIUM and ONCIDIUM, and diftinguished from both principally by the *columna*, with which in the former genus the labellum is articulated, and which, in the latter, is winged.

It was named in commemoration of Mr. BRASS, a man of confiderable botanical knowledge, who went to Africa feveral years ago, to collect plants for Sir JOSEPH BANKS and Drs. FOTHERGILL and PITCAIRN.

Introduced to the Kew Garden, by the Right Hon. Sir JOSEPH BANKS, Bart. K. B. where it flowered in April laft, and was brought to Sir JOSEPH'S, by Mr. AITON, who favoured us with permiffion to get our drawing taken from it.



[1692]

LOBELIA VARIIFOLIA. VARIOUS-LEAVED LOBELIA.

Class and Order.

PENTANDRIA MONOGYNIA.

(SYNGENESIA MONOGAMIA. Linn.)

Generic Character.

Cal. 5-fidus. Cor. 1-petala, irregularis. Anth. cohærentes, Caps. infera 2- f. 3-locularis.

Specific Character.

LOBELIA variifolia; caulibus erectiusculis, foliis linearibus integerrimis dentatisque, floribus subsolitariis terminalibus.

The genus LOBELIA, as now conflituted, contains fo many fpecies, feveral of which differ fo materially in the parts of fructification, that they might with great advantage be feparated. Our prefent plant is nearly related to LOBELIA *lutea*; fee No. 1319, where the remarkable difference that exifts between that plant and the reft of the genus is pointed out. We believe that Mr. SALISBURY has erected thefe two plants into a diffinct genus, but we do not know that he has publifhed any thing on the fubject. We therefore leave them for the prefent under LOBELIA. It is much to be wifhed that fome Botanist, who has fufficient opportunity, would go through the whole order.

LOBELIA variifolia differs from lutea, not only in foliage and habit, but in having a tripartite stigma, which in the latter is bipartite; but whether this distinction is constant must remain uncertain till an opportunity shall offer of examining a greater number of individuals.

Native of the Cape of Good Hope. Our drawing was taken at the fuperb collection of the Comtesse DE VANDES, at Bayes-Water, in July 1812.



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[1693]

MYOPORUM PARVIFOLIUM. SMALL-LEAVED MYOPORUM.

Class and Order.

DIDYNAMIA ANGIOSPERMIA.

Generic Character.

Cal. 5-partitus. Cor. tubo brevi; limbo 5-fido, subæquali. Stigma obtusum. Drupa baccata, 2-4-locularis. Sem. 1-2, pendula.

Specific Character and Synonyms.

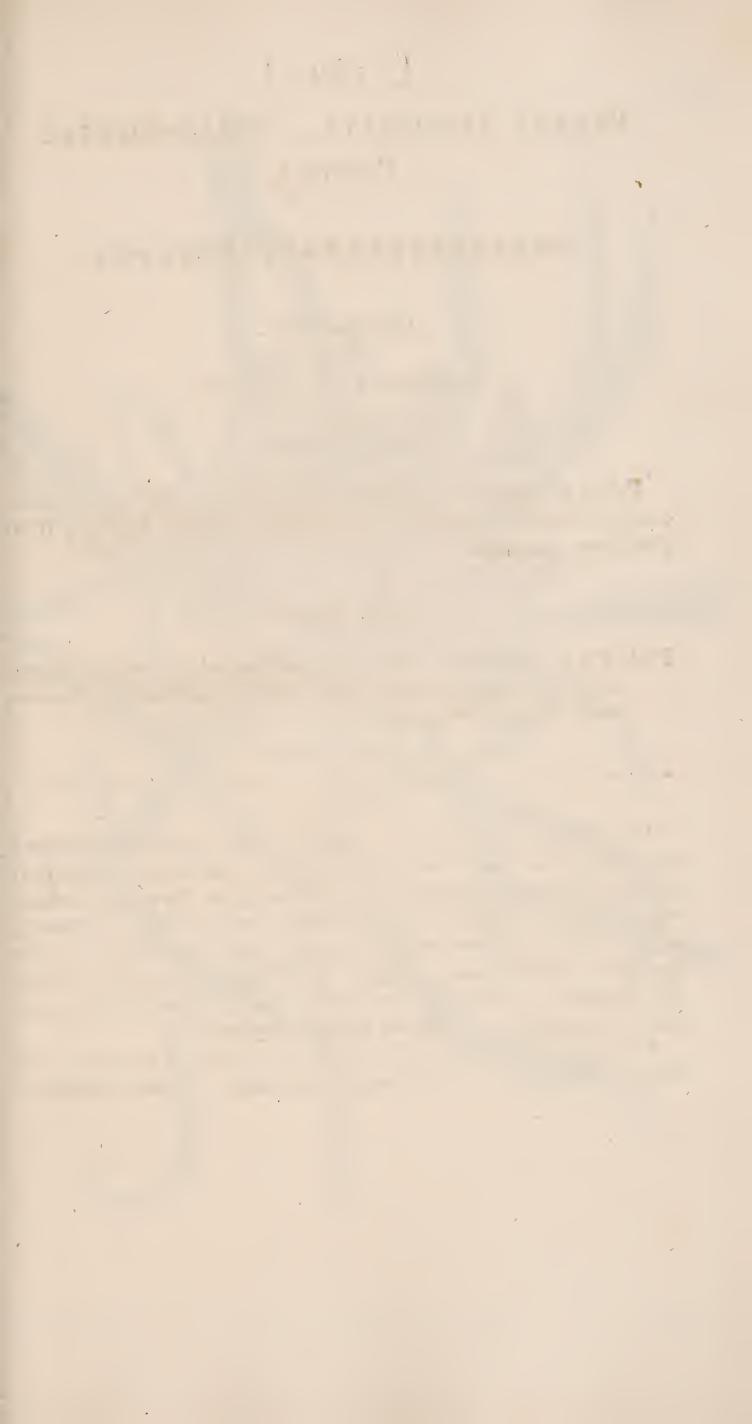
- MYOPORUM parvifolium; foliis alternis clavato-linearibus ramulifque glandulofo-tuberculatis, pedunculis subbipartitis, folium subæquantibus.
- MYOPORUM parvifolium; foliis alternis linearibus obtufiusculis apice nunc dentatis basi attenuatis ramulisque glandulosi, pedunculis passim bipartitis dimidio folio longioribus, caule diffuso. Brown Prod. Fl. Nov. Holl. p. 516. Hort. Kew. ed. alt. 4. p. 60.

POGONIA tuberculata, aspera vel scabra Hortulanis.

This is a very pretty little fhrub, with fweetifh honey-fcented flowers; and flowering almost the whole of the year, is a valuable ornament to our greenhouses.

Being propagated by cuttings without difficulty, it is become pretty common, though no figure of it has, we believe, been hitherto published. We have received specimens of this plant from several quarters, under the names of POGONIA *tuberculata*, as and scabra. Our drawing was taken from a plant communicated by Messes. Loddices and Sons. Introduced in 1803, by Mr. PETER GOOD,

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[1694]

PROTEA ACUMINATA. SHARP-POINTED PROTEA.

Class and Order.

TETRANDRIA MONOGYNIA.

Generic Character.

Petala 4, quorum 3 superne cohærentia. Antheræ apicibus concavis corollæ immersæ. Nux supera, undique barbata, stylo persistente coronata.

Specific Character.

PROTEA acuminata; foliis lineari-lanceolatis acutis planis fupra venulofis, bracteis obtufis apice pubefcente-concavo, ramis flexuofis coloratis.

This fpecies of PROTEA, which we do not find defcribed any where, has confiderable affinity with *canaliculata*; but differs in having broader flat leaves, not hollowed on the upper furface, where they are flightly veined; bractes more obtufe, hollowed at the extremity, and bordered with a black pubefcence. Stem upright: branches weak, twiggy, of a bright red colour on the fide expofed to the light, and more thinly clothed with leaves than in *canaliculata*. Flowers always terminal.

Our drawing was taken at Meffrs. LEE and KENNEDY's, in March 1812, where it is known by the name we have adopted.



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[1695]

COMMELINA TUBEROSA. TUBEROUS COMMELINA.

Generic Character.-Vide No. 1431.

Specific Character and Synonyms.

- COMMELINA tuberofa; (flores involucrati;) radice tuberofo, fafciculata; caule ramofo, futurâ villofâ ftriato; foliis oblongo v. ovato-lanceolatis, glabris, margine fubciliatofcabris, vagina petiolari tomentofo-ciliatis, junioribus fupremis involucroque fubtus pubefcentibus; racemis alternis, inclufis, paucifloris; pedunculis pubefcentibus; rachide pedicellifque glabris; corollæ laciniis æqualibus, ovato-rotundis. G.
- COMMELINA tuberofa. Linn. Sp. Pl. ed. 2. 1. 61. Willich. Illustr. n. 18. Mill. Diet. ed. 8. n. 4. Hort. Kew. 1. 76. ed.
 2. 1. 124. Gærtn. Sem. et Fr. 1. 49. t. 15. Schmidel. Ic. 192. tab. 49. Bot. Rep. tab. 399. Lil. à Redouté. tab. 108. Willd. Sp. Pl. 1. 251. Enum. 69. Vabl Enum. 2. 171.
 COMMELINA cælestis. Willd. Enum. 69.
- COMMELINA radice anacampferotis. Dillen. Hort. Elth. 94. tab. 70. fig. 90.

WILLDENOW, in the last of his works above quoted, records the prefent plant under the name of calefis, and has befides a fpecies in the fame as tuberofa. But, as our plant is undoubtedly his cælestis, and, as far as we can make out, the tuberosa of others; and fince he has given no mark fufficient to diffinguish them by, we fuspect that this was the only one seen by him; and that being unable to fatisfy himfelf of its identity with tuberofa, he has (as we fo often fee is done, to the injury of this fcience) recorded two species instead of one. We doubt whether the C. fasciculata of the Flora Peruviana is really diffinct from this: it has the fame root. Our drawing was made from a feedling fpecimen that flowered in its first year at Mr. VERE's. The feed had been received from a botanic garden in the North of Germany. A native of Mexico; requires to be kept in the stove. Perennial. Cultivated in 1732 by Dr. SHERRARD at Eltham. G_{\bullet}

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CITY IN THE STREET

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[1696]

EUGENIA JAMBOS. NARROW-LEAVED

EUGENIA.

Class and Order.

ICOSANDRIA MONOGYNIA.

Generic Character.

Cal. 4-partitus, superus. Petala 4. Bacca 1-locularis, 1sperma.

Specific Character and Synonyms.

EUGENIA Jambos; foliis integerrimis lanceolatis, pedunculis fubquadrifloris terminalibus. Willd. Sp. Pl. 2. p. 959. Hort. Kew. ed. alt. 3. p. 186.

EUGENIA Jambos; foliis integerrimis, pedunculis ramofis terminalibus. Sp. Pl. 672. Willd. 2. p. 959. Hort. Kew. ed. alt. 3. p. 186. Pl. Zeyl. 188. Lour. Fl. Cochin. 807. Mart. Mill. Dict. n. 2.

JAMBOSA fylvestris alba. Rumpf Amb. 1. p. 127. t. 39. MALACCA-SCHAMBU. Hort. Malab. 1. p. 27. t. 17. PRUNUS malabarica fructu umbilicato pyriformi Jambos dicta minor. Raj. Hist. 1478. n. 1.

In reading over the defcriptions of the authors above quoted, there appears to be confiderable contradiction exifting in their accounts, which may be owing perhaps occafionally to the confounding this fpecies with E. malaccenfis; or there may be different varieties or fpecies. RUMPF defcribes our plant as one of the wild forts of JAMBOSA, diftinguifhing it from the domeftic, or EUGENIA malaccenfis of LINNÆUS by its fmaller fize, crooked growth of the ftem, and auftere, round-comprefied fruit, which he fays is feldom eaten in Amboyna, being lefs juicy, more infipid, and leaving a bitterifh tafte on the palate. From the crooked growth, the wood is chiefly ufed for the ribs of fhips.

In the *Hortus Malabaricus*, the flowers are defcribed as at first white and scentless, afterwards turning yellow and acquiring an acid or vinous smell; and the fruit is faid to be fweet and grateful, with a very pleasant rose-like scent. By LOUREIRO the stamens are described to be red, the fruit sweetish acid, without sinell.

Communicated by —— BARRETT, Elq. of Ewel, at the latter-end of June. Flowers from February to July. Native of the East-Indies. Requires to be kept constantly in the bark stove.



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Pus bor C. Curler Walsorth Jon. 1. 1816

E. Sonfon .

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[1697]

PTERONIA PAUCIFLORA. FEW-FLOWERED PTERONIA.

Class and Order.

SYNGENESIA POLYGAMIA ÆQUALIS.

Generic Character.

Recept. paleaceum : paleis multipartitis. Pappus subplumosus. Cal. imbricatus, squamis carinatis.

PTERONIA *pauciflora*; fuffrutex tomentofo-pilofus, ramis unifloris, foliis alternis lanceolatis, squamis calycinis glabris obtufis, capitulis cylindricis.

This little fhrub, native of the Cape of Good-Hope, was communicated by the late Mr. NAPIER, from the Vauxhall Nurfery, now CHANDLER and BUCKINGHAM'S. Having neglected at the time to examine it particularly, and not having met with it fince, it is not without fome hefitation that we give it as a fpecies of PTERONIA.

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GILE BOLL WITH A DRUG AND A DRUG -10 Y



[1698]

OXALIS ROSACEA. ROSE-COLOURED WOOD-SORREL.

Class and Order.

DECANDRIA PENTAGYNIA.

Generic Character.

Cal. 5-phyllus. Petala unguibus connexa. Stam. inæqualia : 5 breviora exteriora, bafi connata. Capf. angulis dehifcens, 5-gona.

Specific Character and Synonyms.

- OXALIS rofacea; caule fimplici foliofo decumbente, foliis ternatis fubfeffilibus, pedunculis unifloris longiffimis, petalis fubtus difcoloribus.
- OXALIS rofacea; caule foliofo fimplici decumbente, pedunculo unifloro foliis multoties longiore, foliis ternatis fubfeffilibus oblongo-cuneiformibus, corollis campanulatis acutiufculis, ftylis ftaminibus interioribus brevioribus. Willd. Sp. Pl. 2. p. 797. Hort. Kew. ed. alt. 3. p. 128.
- OXALIS rofacea; corollis campanulatis, stylis intermediis, filamentis gibbose denticulatis. Jacq. Oxalis, n. 30. p. 51. t. 17.

This beautiful species of OXALIS was communicated from the Bishop of London's garden in Fulham, in October 1812. Native of the Cape of Good-Hope. Introduced by Mr. MASSON. Flowers from September to November.

N, 1698.







[1699]

CROTALARIA PULCHELLA. LARGE-FLOWERED CROTALARIA.

Class and Order.

DIADELPHIA DECANDRIA.

Generic Character.

Legumen turgidum inflatum, pedicellatum. Filam. connata, cum fisfura dorfali.

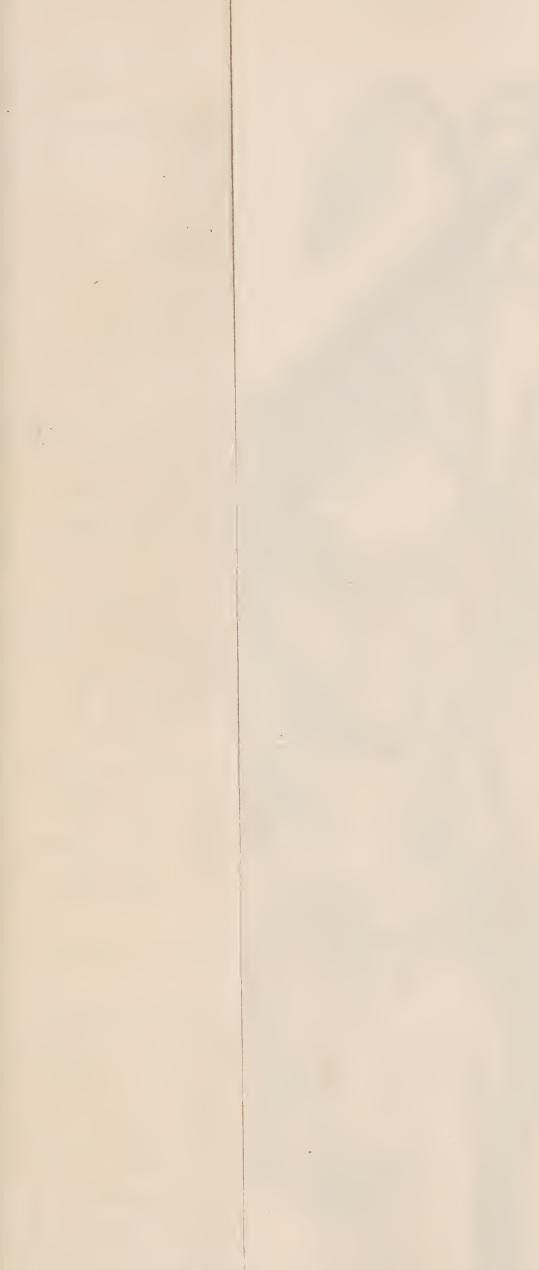
Specific Character and Synonym.

CROTALARIA *pulchella*; frutescens, ramulis teretibus fericeis, foliis ternatis: foliolis lineari lanceolatis acutis petiolis longioribus subtus subpilos. Bot. Repos. 417. Hort. Kew. ed. alt. 4. p. 274.

The CROTALARIA *pulchella* is a handfome greenhoufe fhrub, with long, erect, flender, rounded branches, bearing large bunches of yellow flowers at their extremities. The whole plant is covered with a filky, clofe-adpressed pubefcence.

Our drawing was made feveral years ago, at Mr. COLVILLE'S Nurfery, in the King's-Road, in the month of May. Native of the Cape of Good-Hope.

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[1700]

YUCCA ALOIFOLIA. TALL-STEMMED ADAM'S NEEDLE.

Generic CharaEter.-Vide No. 900.

Specific Character and Synonyms.

- YUCCA aloifolia; caudice arborescente, frugisero foliis aliquoties altiore; foliis numerosissinis, lapsu inferiorum excelse terminalibus, lanceolato-ligulatis, strictiss, subtiliter denticulatis, juxta supra basin angustatis, interioribus erectius conniventibus; panicula racemosa, numerosa, subconferta, pyramidata, divaricata, ramulis laxis; corolla nutante. G.
- YUCCA aloifolia. Linn. Spec. Pl. ed. 2. 1. 457. Mill. Dict. ed.
 8. n. 2. Hort. Kew. 1. 465. ed. 2. 2. 291. Decand. Pl. Gr.
 tab. 20. Desfont. Traité des Arbres. 1. 18. Lil. à Redouté.
 tab. 401, 402. Mich. Bor. Amer. 1. 196. Pursh Amer. Sept.
 1. 228.
- YUCCA gloriofa. Bot. Reposit. 473; (nec aliorum.)
- Y. arborescens foliis rigidioribus, rectis, serratis. Dillen. Hort. Elth. 435. tab. 326. fig. 416.
- ALOE yuccæ foliis caulescens. Pluk. Alm. 19. t. 256. f. 4.
- A. americana, yuccæ foliis arborescens. Comm. Prælud. 64. tab. 14.

The moft lofty of its genus yet known to us; the flem rifing fometimes to near eighteen feet high even in this country. The *leaves* are narrower and fliffer than in *gloriofa* (fee above, No. 1260), and their edges finely ferrate and not entire as in that; the *panicle* much clofer flowered, from two to three feet high; *flowers* fuffufed with purple on the outfide. It does not bloom fo freely as the two fpecies already given in this work; and when it does the head decays, others fprouting out below. Ufually kept in the greenhoufe or confervatory, where we have feen vigorous plants, ten feet high and as thick as a man's arm, in garden-pots not more than a foot deep. It is faid to thrive better in the open ground, ground, and to flower there much ftronger, when the feafons are favourable. We had not the opportunity of feeing the prefent plant, which flowered laft October in the garden of Mrs. W_{ALKER} , at Stockwell. Native of both North and South America. Cultivated in 1696, in the King's Garden, at Hampton-Court. G.

ERRATUM.

No. 744, 1. 13, a pede pag. pro "præter habitum non bulbosum aliundeque diversum," lege "habitu præterea non bulboso aliundeque diverso."





Pub. by S. Curtor Walworth Jan. 1. 181.

F. Sanfon Sc.

[1701]

SESUVIUM PORTULACASTRUM (B) REVOLUTUM. PURSLANE-LEAVED SESUVIUM.

Class and Order.

ICOSANDRIA TRIGYNIA.

Generic Character.

Cal. 5-partitus, coloratus. Petala 0. Caps. ovata, 3-5-locularis, circumsciffa, polysperma.

Specific Character and Synonyms.

SESUVIUM Portulaçastrum; floribus subsessibus.

SESUVIUM Portulacastrum. Hort. Kew. ed. alt. 3. p. 203. Willd. Sp. Pl. 2. p. 1009. Decand. Pl. Graffes 9. Lamarck Illustr. t. 434. f. 2. Swartz Obs. p. 204. Jacq. Amer. 155. t. 95.
SESUVIUM selfile et revolutum. Person Syn. 2. p. 39. n. 2. et 3.
AIZOON canariense. Bot. Repos. 201.

PORTULACA aizoides maritima procumbens, flore purpureo. Sloane Hist. 1. p. 204.

AIZOON repens, foliis oblongis turgidis, floribus feffilibus fingularibus ad alas. Brown Jam. p. 241.

CRITHMUS indicus. Rumpf Amb. 6. p. 165 t. 72. f. 1.?

(β.) revolutum; foliis ovato-oblongis margine revolutis. Perfoon Syn.
 2. p. 39.

SESUVIUM revolutifolium. Ortega Decad. p. 19.

PERSOON makes three species of SESUVIUM, viz. pedunculatum, fessible, and revolutum; and quotes the figures of DECANDOLLE'S Plantes Graffes, at that time unpublished, for all of them. But as this Botanist has as yet published only one species, and that under the name of Portulacastrum, we cannot absolutely determine on the propriety of PERSOON'S division. Our plant, however, differs so little from DECANDOLLE's figure, that we can consider

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it only as a variety. At the fame time we are inclined to think that those plants which have flowers on long peduncles, reflected as the fruit ripens, may form a species distinct from those with nearly seffile flowers, as in the two figures in LAMARCK's Illustrations. Judging, however, from the figures given by different authors, none of their plants feem to have had entirely feffile flowers; and in fome, the length of this part is fuch as to make it doubtful to which fpecies they ought to be referred : perhaps, therefore, they may be all merely varieties of the fame. The fpecies is faid to occur in maritime places both in the

East and West-Indies. Our variety is a native of Cuba. Communicated by Mr. KNIGHT, of the Exotic Nursery, King's-Road, flowering in July.

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[1702]

HIBISCUS MANIHOT. PALMATED-LEAVED HIBISCUS.

Class and Order.

MONADELPHIA POLYANDRIA.

Generic Character.

Cal. duplex : exterior polyphyllus. Stigmata 5. Capf. 5locularis polyfperma.

Specific Character and Synonyms.

- HIBISCUS Manihot; foliis palmato-digitatis feptempartitis, caule petiolifque inermibus. Sp. Pl. 980. Willd. 3. p. 825. Hort. Kew. ed. alt. 4. p. 229. Mart. Mill. Ditt. n. 29. Sabbat. Hort. 1. t. 56. Kniph. Cent. 9. n. 47. Cav. Diff. 3. p. 172. t. 63. f. 2. Thunb. Jap. 272.
- KETMIA folio manihot ferrato, flore amplo sulphureo. Dill. Elth. 189. t. 156. f. 189.
- ALCEA finica manihot stellato folio, capsula longa pilosa pyramidata quinquesariam divisa. Pluk. Amalth. 7. t. 355. f. 2.

This beautiful flower is a native of China and Japan, and has at times been cultivated in this country fince the year 1712, at which period it was fent to the Royal Society as one of the fifty fpecimens annually delivered from the Apothecaries Garden at Chelfea.

The genus HIBISCUS contains many plants fo differently organized, that they might be advantageoufly divided into feveral genera. Our friend Mr. BROWN has feparated this fpecies with fome related ones, having an internal deciduous calyx burfting on one fide, and a long pyramidal capfule, and formed them into a diffinct genus, under the name of BAMIA; but has not, as yet, publifhed on the fubject.

Communicated by Mr. SWEET, of the Stockwell Nurfery. Flowers in August and September. Is treated as a stove shrub; but is probably more hardy than is supposed, as has been found to be the case with most Japan plants.



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[1703]

HELONIAS BRACTEATA. LEAFY-FLOWERED HELONIAS.

Class and Order.

HEXANDRIA TRIGYNIA.

Generic Character .- Vide No. 985.

Specific Character.

HELONIAS bracteata; (hermaphrodita) rhizomate horizontali, foliis lanceolatis erectis, bracteis flore longioribus, petalorum glandulis distinctis.

HELONIAS bracteata has a near affinity to glaberrima (No. 1680). From which it differs in having yellowifh green, not glaucous leaves; flowers larger, feffile, in a denfe fpike, with large ovateacuminate bractes, longer than the corolla, the glands of the petals, which in the former fpecies are confluent, in this are quite diftinct; the root in the former is bulbous, in this flefhy, running horizontally along the furface of the ground, as in Iris.

Native of North-America. Introduced by Meffrs. FRASER, of Sloane-Square, who communicated the plant from which our drawing was made. Flowers in September and October. Seems to be a hardy perennial, and may no doubt be propagated by cuttings of its flefhy roots.









Pub. by C. Curtie Walworth Feb 1. 1815.

[1704]

LACHENALIA QUADRICOLOR (Y.) LUTEA. SPOTTED-LEAVED YELLOW LACHENALIA.

Class and Order.

HEXANDRIA MONOGYNIA.

Generic Character.-Vide No. 993.

Specific Character and Synonyms.

- LACHENALIA quadricolor; foliis binis lineari-lanceolatis canaliculatis furfum explanatis, floribus diftantibus pedunculatis pendulis: petalis exterioribus fere dimidio brevioribus. Synonyma petenda, No. 588 et 1097.
- (a.) foliis omni macula expertibus. Supra No. 588.
- (B.) foliis maculatis, floribus quadricoloratis. Supra No. 1097.
- $(\gamma$.) foliis maculatis, floribus concoloribus luteis.
- LACHENALIA luteola. Jacq. Ic. rar. 2. t. 395. quoad figuram fine foliis.

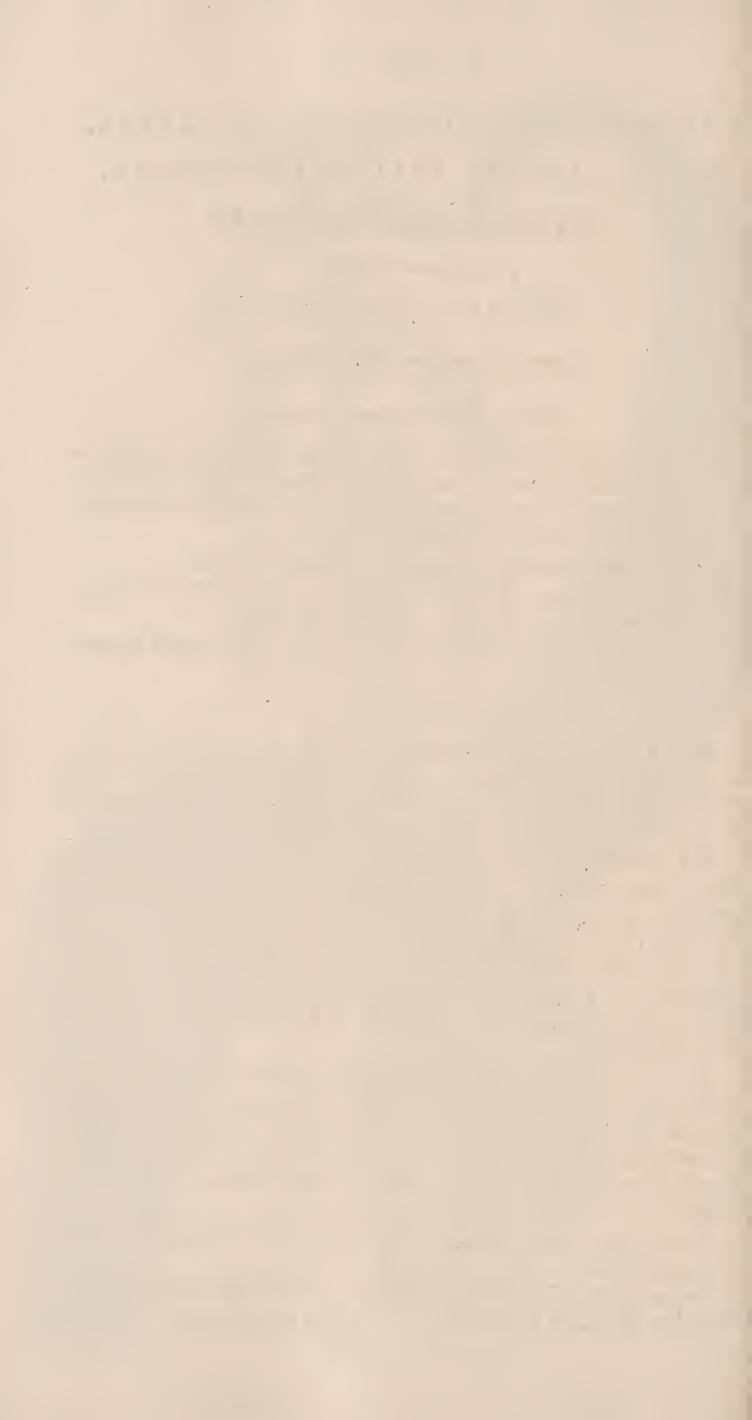
Our LACHENALIA quadricolor, though fhewn by Mr. KER, at No. 1097 of the Magazine, to be in reality the original tricolor of the first edition of AITON'S Hortus Kewensis, is still referred to in the last edition of that work as a variety of *pendula*.

We remarked on the publication of variety (α) of this fpecies, that it came nearer to *tricolor* than to *pendula*, and to the former, perhaps, all our three varieties might be properly referred. Having, however, hitherto retained JACQUIN'S name of *quadricolor*, we think it beft to continue it, efpecially as it is doubtful whether our LACHENALIA *tricolor* (No. 82), and its variety (No. 1020) be not really a diftinct fpecies from our varieties of *quadricolor*.

JACQUIN appears to have figured our plant as a mere variety of his *luteola*; but as he has not added the leaves, we cannot fay how far they may have agreed in this refpect. He observes, that out of a hundred specimens, only two had spotted leaves; if the figure in question belonged to one of these, there would be no doubt.

Our drawing was made at Mr. GRIFFIN's, South-Lambeth, in August last.

Native of the Cape of Good-Hope. Propagated by its bulbs. Requires the fame treatment as for other Cape bulbs.



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[1705]

HÆMANTHUS TIGRINUS. TIGER-SPOTTED BLOOD-FLOWER.

Class and Order.

HEXANDRIA MONOGYNIA.

Generic Character.-Vide No. 1075.

Specific Character and Synonyms.

- HÆMANTHUS tigrinus; foliis linguiformibus planis glabris margine ciliatis depreffis, umbella coarctata, limbo staminibusque crectis. Willd. Sp. Pl. 2. p. 25. Hort. Kew. ed. alt. 2. p. 207. Person Syn. 1. p. 348. n. 5.
- HÆMANTHUS tigrinus; foliis oblongis ciliatis fubtus maculatis, fcapo maculato umbella coarctata. Jacq. Hort. Schoenb. 1. p. 29. t. 56.

The *leaves* of the HÆMANTHUS *tigrinus* appear after the flowering is paft, are two, broad-tongue-fhaped, flefhy, fmooth, ciliated at the margin, lying nearly flat on the ground; they are marked, efpecially towards the bafe, on the under fide, with irregular dark iron-coloured fpots, from whence the fpecific name. The *tube* of the *corolla* is fhort, fomewhat dilated at the top and white: the *limb* erect, pale red.

The fpecimen figured by JACQUIN was not nearly fo large as the one from which our drawing was taken, which flowered in August last, in the most extensive collection of Cape bulbs of Mr. GRIFFIN, in South-Lambeth,



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Pub. by . Curtis Maturorth Feb. 1. 1.915

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[1706]

Donia squarrosa. Snake-headed Donia.

Class and Order.

SYNGENESIA POLYGAMIA SUPERFLUA,

Generic Character.

Recept. nudum. Pappus setaceus caducus. Calyx imbricatus, hemisphæricus. BROWN.

Specific Character and Synonyms.

DONIA *fquarrofa*; herbacea; foliis oblongis amplexicaulibus ferratis, calycinis fquamis apice filiformibus revolutofquarrofis. *Purfb Fl. Am. Sept.* 559.

This genus was named by Mr. BROWN, in honour of the late Mr. GEORGE DON, a celebrated Scottifh Botanist, whose discoveries have made fo many additions to the British Flora. It was taken up from the ASTER glutinosus of Prof. CAVANILLES, a native of Mexico, with a shrubby stem, and some other unpublished species.

DONIA *Jquarrofa* is a herbaceous perennial, native of open meadows on the banks of the Miffouri; and, as we learn from Mr. LAMBERT'S Herbarium, was first discovered in the camp, near the old Maha village, by Mr. LEWIS, on the 17th of August 1804. We believe it was first introduced to this country by Mr. NUTTAL.

Mr. PURSH fays, that the whole plant is vifcous, and has a ftrong refinous or balfamic fcent; to us these qualities seemed to be confined chiefly, if not altogether, to the calyx and corolla, and more especially to the latter.

Our drawing was taken at Meffrs. FRASER'S American Nurfery, Sloane-Square. We were favoured with other specimens by Mr. ANDERSON, from the garden of JAMES VERE, Esq. and also from Boyton, the seat of A. B. LAMBERT, Esq. Flowers from August to November. Propagated by seeds or parting its roots.







[1707]

PETALOSTEMUM VIOLACEUM. PURPLE-FLOWERED PETALOSTEMON.

Class and Order.

DIADELPHIA PENTANDRIA.

Generic Character.

Cor. nulla, ejus loco filamenta 5, sterilia, petaliformia, fertilibus alternantia. Legumen calyce tectum, 1-spermum.

Specific Character and Synonyms.

- PETALOSTEMUM violaceum; capitulis ovato-oblongis, calycibus pilofis, bracteis deciduis, foliis subbijugis linearibus.
- PETALOSTEMUM violaceum; fpica cylindrica pedunculata, bracteis calycem fubæquantibus, bracteolis fpathulatis deciduis, calycibus fericeis, foliis bijugis linearibus. Pur/b Fl. Amer. Sept. p. 461.
- PETALOSTEMUM violaceum; pubens; foliolis linearibus: bracteis brevioribus; bracteolis fpathulatis deciduis: petalis rofaceo-violaceis. Michaux Fl. Bor. Amer. 2. p. 50. t. 37. f. 2.
 DALEA violacea. Willd. Sp. Pl. 3. p. 1337.

The purple PETALOSTEMUM, as an ornamental flower, is by no means defpicable, but is more remarkable for its fingular flructure: being a diadelphous plant without any proper corolla, having nine united and one detached filament, as is moft ufual in the clafs. But the alternate filaments are barren, coloured, and expanded at top into a petal-like appendix. The folitary filament is longer than the reft, channelled on the upper fide, coloured, and expanded into a boat-fhaped extremity; which as it occupies the place of, fo it feems a fort of attempt towards, the formation of a vexillum. The *fertile filaments* are longer than the others and farther detached than is ufual: the anthers are nearly globular, and abound with a bright orange-coloured *pollen*. pollen. The unripe germen certainly contains two ovula, but one feed only probably comes to perfection. The calyx is inflated, white, five-toothed: teeth hairy.

That this plant has no real corolla was remarked by THOMAS NUTTAL, Efq. who first introduced it to this country. We received living specimens from this gentleman in the autumn of 1813, which slowered in the open ground, near Liverpool, but from the absence of our draughtsman could not get it drawn at that time. We are informed by Mr. NUTTAL, that this plant forms one of the principal decorations of the vast plains of the Illinois, Tennasse, and Louissan, but its native country appears to be particularly in the upper part of this last flate, to the base of the rocky mountains or Northern Cordillera, from whence it has been propagated eastward by the great rivers that meander through these regions.

Collected by Mr. NUTTAL, in the vicinity of St. Louis, lat. 38° 43".

Our drawing was taken at Meffrs. FRASER'S American Nurfery, Sloane-Square, last October. It is a tolerably hardy perennial, but requires to be protected from frost.





[1708]

BAUHINIA PORRECTA. SMOOTH-LEAVED MOUNTAIN EBONY.

Class and Order.

DECANDRIA MONOGYNIA.

Generic Charaeter.

Cal. 5-fidus deciduus. Petala patula, oblonga unguiculata: superiore magis distante; omnia calyci inferta. Legumen.

Specific Character and Synonyms.

- BAUHINIA porrecta; floribus monandris, pedunculis laxe racemofis, petalis lanceolatis: unguibus filiformibus, foliis cordatis: lobis trinerviis.
- BAUHINIA porrecta; foliis cordatis: lobis porrectis acutis trinerviis, petalis lanceolatis. Hort. Kew. ed. 1. 2. p. 48. ed. alt. 3. p. 23. Willd. Sp. Pl. 2. p. 510. Swartz Prod. 66. cui flores fubdecandri.
- BAUHINIA porrecta; floribus diadelphis fubdecandris, foliis cordatis, lobis femiovatis acutis fubquadrinerviis, petalis lanceolatis. Jacq. Hort. Schoenb. 1. p. 52. t. 100.
- BAUHINIA foliis bilobis spicis laxis terminalibus. Brown Jam. 286.
- BAUHINIA non aculeata, folio ampliori et bicorni. Plum. Gen. 23. Ic. 44. f. 2.?
- SENNÆ spuriæ aut Aspalatho affinis arbor siliquosa, soliis binis. Sloane Jam. 150. Hist. 1. p. 51.

The genus BAUHINIA was named by PLUMIER, in honour of JOHN and CASPAR BAUHIN, the most celebrated Botanists of their day; and LINNÆUS has ingeniously connected the plant with the name, by comparing the two lobed leaves, or as it were two leaves iffuing from the fame base, with the above-named above-named pair of noble brothers. Such allusions ferve at least to rivet the name in the memory.

This fpecies and *divaricata* are both monandrous, or have in general only one fertile ftamen, which is diffinct, and much ftouter and longer than the other nine connected filaments without anthers, or with only imperfect ones. It happens, however, that now and then one or another filament grows longer than the reft, and has a fmall polliniferous anther.

Native of the Weft-Indies. The leaves appear to vary confiderably. One specimen in the Banksan Herbarium, from the Island of St. Kitts, has leaves with obtuse lobes exactly refembling those of our plant, others are sharper and more lengthened at the point.

Communicated by our friend JOHN WALKER, Efq. of Arno's-Grove, in October last.

Varies, according to Sir HANS SLOANE, with red and with variegated flowers. The wood is very hard and veined with black, hence the name of Ebony.





Ind. by of Cartis Walnorth Leh. 1. 1815

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[1709]

LIATRIS SCARIOSA. SCARIOUS-CUPPED LIATRIS.

Class and Order.

SYNGENESIA POLYGAMIA ÆQUALIS.

Generic Character.

Recept. nudum. Cal. oblongus, imbricatus. Pappus plumosus.

Specific Character and Synonyms.

- LIATRIS *fcariofa*; foliis lanceolatis integerrimis glabris, calycibus globofis inferne squarrofis distinctis: squamis rotundatis membranaceo-marginatis.
- LIATRIS *fcariofa*; caule fimplici fubpubefcente, foliis lanceolatis utrinque attenuatis glabris margine fcabris, calycibus racemofis alternis diftantibus inferne fquarrofis; fquamis fpathulatis margine membranaceo-coloratis. *Purfb Fl. Amer. Sept.* 509.
- LIATRIS scariosa. Willd. Sp. Pl. 3. p. 1635. Hort. Kew. ed. alt. 4. p. 503.
- LIATRIS squarrulosa; Michaux Fl. Bor. Amer. 2. p. 92.
- SERRATULA *fcariofa*; foliis lanceolatis integerrimis calycibus fquarrofis pedunculatis obtufis. Linn. Sp. Pl. 1147.
- EUPATORIO affinis americana bulbofa, floribus scariofis calyculis contectis. Pluk. Alm. 142. t. 177. f. 4.

DESCR. Stem four-feet high, upright, fin.ple, pubefcent. Leaves narrow-lanceolate, quite entire, dotted with pellucid glands, fmooth, except at the edge, which is roughened by a row of ftiff hairs hardly visible to the naked eye. Bractes like the leaves but narrowed from the base to the point. Flowers diftinct, but near together, in a long raceme on short peduncles, fometimes without and sometimes with one or two squamous bractes. Calyx, before the flower appears globular, asterwards oval: the lower fcales reflexed, upper ones erect, rounded at the the point with a membranaceous border. Receptacle naked; but in the circumference appears as if chaffy from abortive florets. *Tube* of corolla inflated in the middle : limb 5-cleft, erect, acute. Anthers dark purple. Germen hairy, crowned with a toothed pappus: flyle oblique: fligmas clubschaped, far exceeding the corolla in length.

The fpecimen from which the above defcription was taken was fent us from his garden at Boyton, by our friend AYLMER BOURKE LAMBERT, Efq. The fpike of flowers was a foot and a half long, the upper ones bloffoming first and gradually defcending, but nearly the whole were expanded before any began to fade. Upon the whole it is among the handfomest of the fyngenesious plants. It is particularly adapted to the flower pot, as it will live and continue to blow in water for weeks together.

Our drawing was taken at Mr. KNICHT's Exotic Nurfery, in the King's-Road, Little Chelfea, in October 1813.

Native of the mountain pastures in Virginia and Carolina. A hardy perennial. Propagated by parting its roots or by feed.





[1710]

SARRACENIA VARIOLARIS. HOOK-LEAVED SIDE-SADDLE-FLOWER.

Class and Order.

POLYANDRIA MONOGYNIA.

Generic Character.

Cal. duplex, 3-phyllus et 5-phyllus. Capf. 5-locularis. Stylus fligmate clypeatus.

Specific Character and Synonyms.

- SARRACENIA variolaris; foliis tubulatis longitudine. pedunculi: valva fubrotunda inflexa: tubi dorfo fuperne maculato.
- SARRACENIA variolaris; foliis elongatis, tubo superne dorso maculato, in appendicem fornicatim incurvatum brevem definente, ala ventrali lineari-lanceolata. Michaux Flor. Bor. Amer. 1. p. 310. Parsh Fl. Amer. Sept. 367. Person Synops. 2. p. 62.
- SARRACENIA adunca; foliis tubulatis longitudine pedunculi: valva subrotunda inflexa. Smith Exot. Bot. 1. p. 103. t. 53. Hort. Kew. ed. alt. p. 291.
- SARRACENIA minor. Walter Fl. Carol. 153. Willd. Sp. Pl. 1150. 2. p. 6. Person Syn. 2. p. 62.

The SARRACENIA variolaris is at once diffinguished from flava, by its smaller fize; spreading, not dependent petals; and the diaphanous spotting at the upper part of the back of the tube of the leaf.

Our friend, Sir JAMES E. SMITH, feemingly not aware that this fpecies had been previoufly defcribed by MICHAUX, in his Exotic Botany, gave it the name of *adunca*; whence it has been inferted inferted in the Hortus Kewenfis. WILLDENOW continues WALTER's name of *minor*; and PERSOON has given both *minor* and variolaris as two species.

Native of Carolina. Flowers at different feafons. Our drawing was taken laft March, at Meffrs. LEE and KENNEDY's, by whom it was first introduced in 1803. Mr. PURSH fays, the SARRACENIAS bear cultivation, in pots filled half way with Bog-Moss, extremely well. This species feems to flower best in an airy part of the store.

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[1711]

MATTHIOLA ODORATISSIMA. PERSIAN STOCK.

Class and Order.

TETRADYNAMIA SILIQUOSA.

Generic Character.

Siliqua (teres v. compressa) coronata stigmate conniventi bilobo, lobis vel dorso incrassatis tuncque cotyledonibus incumbentibus; vel basi cuspide stipatis. Calyx clauss. Filamenta longiora dilatata. BROWN.

Specific Character and Synonyms.

- MATTHIOLA odoratisfima; (fligmate subsimplici) foliis tomentosis lyrato-sinuatis, filiquis compressis, tomentosis lævibus. Hort. Kew. ed. alt. 4. p. 120.
- CHEIRANTHUS odoratissinus. Willd. Sp. Pl. 3. p. 524. Ejusd. Enum. 682. Pallas Ind. Taur. in Nov. Act. Petrop. 10. p. 314.
- CHEIRANTHUS odoratiffimus; foliis runcinatis tomentofis, filiquis linearibus compreffis, ftigmate bilobo terminatis, caule fuffruticofo. Marschall ab Bieb. Fl. Taur-Caucas. p. 122.

Mr. BROWN, in the new edition of the Hortus Kewenfis, has divided the old genus CHEIRANTHUS into feveral genera, devoting a part thereof to the commemoration of the celebrated commentator on Diofcorides, PETER AND. MATTHIOLUS; the former genus, affigned to him by PLUMIER, having been proved to be the fame with GUETTARDA. This genus contains, befides the prefent plant, CHEIRANTHUS incana; fenefiralis; finuata; tricuspidata; parviflora; &c.

The leaves of the PERSIAN STOCK, are extremely variable in their figure, being fometimes quite entire, fometimes only flightly flightly toothed, but more frequently finuately pinnatifid, and always much the broadest towards the point. The whole plant is tomentofe.

This fpecies has great affinity with MATTHIOLA (CHEI-RANTHUS) triflis, 729 of this work; and, like it, does better treated as a greenhouse plant, than exposed to our winters in the open ground. The flowers are much larger and of a brighter colour than those of triflis; and have the same fragrant smell after surface.

Our drawing was taken from a plant communicated by Mr. SALISBURY, from the Botanic Garden, in Sloane-Street, in May laft. We were favoured with fine fpecimens the year before, by Mr. WHITLEY, from the Fulham Nurfery.

Introduced to the Kew Garden, by the Right Hon. Sir JOSEPH BANKS, Bart. K. B. in 1797.

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[1712]

OXALIS VARIABILIS, Var. RUBRA. RED-FLOWERED VARIABLE WOOD-SORREL.

Class and Order.

DECANDRIA PENTAGYNIA.

Generic CharaEter.

Cal. 5-phyllus. Petala 5, unguibus connexa. Stam. inæqualia; 5 breviora exteriora basi connata. Caps. angulis dehiscens, 5-gona.

Specific Character and Synonyms.

OXALIS variabilis; acaulis, scapo unifloro foliis longiore flaccido, foliis ternatis subrotundis: foliolo intermedio cuneiformi, stylis staminibus exterioribus brevioribus. Willd. Sp. Pl. 2. p. 777. Hort. Kew. ed. alt. 3. p. 120.

- OXALIS variabilis. Jacq. Oxal. 89. t. 52 et 53.
- (a.) albiflora. Vide supra No. 1683.
- (B.) rubra. Scapis petiolo longioribus, limbo corollæ rubro.
- OXALIS variabilis. B. flore rubro. Jacq. Oxal. 89. t. 53.
- OXALIS purpurea. Thunk. Diff. No. 8. p. 12. v. a. Jacq. Oxal. n. 70. t. 56? Sp. Pl. 621. OXALIS speciosa. Jacq. Oxal. n. 74. t. 60?
- OXALIS sugillata. Jacq. Oxal. n. 75. t. 61 ?
- OXYI affinis planta bulbofa africana, flore purpureo magno. Breyn. Cent. p. 102. t. 46.
- OXYS bulbofa africana rotundifolia caulibus et floribus purpureis amplis. Commel. Hort. 1. p. 41. t. 21.

It appears to us that JACQUIN, in his elaborate and excellent Monograph on this genus, has multiplied the species beyond what nature warrants. We fuspect, that all that we have quoted in the prefent article are only varieties. And the the fynonyms quoted from BREYNE and COMMELIN undoubtedly belong to our species.

Native of the Cape of Good-Hope. Flowers from September to November. Communicated by Meffrs. LODDICES and Sons.

ERRATUM.

No. 1683, 1. 14, pro (7) lege (a).





[1713]

PROTEA FORMOSA. CROWN-FLOWERED PROTEA.

Class and Order.

TETRANDRIA MONOGYNIA.

Generic Character.

Petala 4, quorum 3 superne cohærentia. Antheræ apicibus concavis corollæ immersæ. Nux supera undique barbata, stylo persistente coronata. BROWN.

Specific Character and Synonyms.

- PROTEA formosa; foliis oblongo-ellipticis marginatis, involucri bracteis spathulatis externe sericeis, corollis tomentosis, stylo apice curvato, stigmate apice incrassato.
- PROTEA formofa; foliis angusto-oblongis venosis obliquis: basi simplici; marginibus ramisque tomentosis, involucri bracteis ciliatis: intimis lingulatis imberbibus, corollis aristisque tomentosis, stylo glabro apice curvato, stigmate apice incrassato. Brown in Linn. Soc. Transat. v. 10. p. 79. Hort. Kew. ed. alt. 1. p. 189.

PROTEA coronata. Bot. Repos. 469.

ERODENDRUM formofum; foliis ellipticis margine craffo, tenellis tomentofis: bracteis involucri fimbriatis, inferioribus inter fe liberis: corolla extus tomentofa, apice valde attenuata: antheris perangustis: stigmatis apice craffo. Parad. Lond. 76.

Our drawing of this beautiful Protea was taken at Meffrs. LEE and KENNEDY'S, Hammerfmith, where there are varieties with red, white, and bluifh flowers. Flowers in May. Native of the Cape of Good-Hope, growing in the mountains of Hottentots-Holland, from whence it was introduced in 1789, by Mr. FRANCIS MASSON.

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POLYGALA MIXTA. HEATH-LEAVED MILK-WORT.

Class and Order.

DIADELPHIA OCTANDRIA.

Generic Character.

Cal. 5-phyllus : foliolis 2 alæformibus coloratis. Legumen obcordatum biloculare.

Specific Character and Synonyms.

POLYGALA mixta; floribus imberbibus folitariis feffilibus, foliis fasciculatis teretibus mucronulatis.

POLYGALA mixta; floribus imberbibus feffilibus, foliis teretibus mucronatis confertiffimis. Linn. Suppl. Pl. 316. Willd. Sp. Pl. 3. p. 891. Hort. Kew. ed. alt. 4. p. 245. Bot. Repof. 455.

POLYGALA mixta; floribus imberbibus lateralibus, foliis fasciculatis trigonis crectis mucronato spinosis. Thunk. Prod. 121.

DESCR. Stem fhrubby, with long flexile branches. Leaves fubulate, rigid, fmooth, terminated with a minute oblique mucro, collected in fafcicles of five or fix growing from the fame point. Thefe fafcicles are crowded together, oppofite at the lower part of the branch, giving a verticillate appearance; but nearer the extremity they are alternate. *Flowers* folitary, feffile, or on very fhort pedicles, in the axils of the leaves. *Calyx* fmall, the lateral fegments larger than the reft, but feldom, if ever, coloured. *Corolla* femipapilionaceous, having no vexillum; alæ rigid, erect, fubulate, white. *Carina* deeply channelled, of a faturated purple within: fides folded together, fo as to include and firmly embrace the *ftyle* and *ftamens*, which, when arrived at maturity, upon being moved, efcape elaftically from their confinement, and ftrike againft the two erect petals or alæ, by which the pollen is difperfed. The apex of the carina is expanded into a two-lobed, plain *petal*, the *lobes* of which are emarginate. This appendix is of a bright rofe colour, and forms the principal part of the flower; and, difperfed amongft the green foliage in every part of the fhrub, gives it a pretty lively appearance. It continues in bloffom almost throughout the year.

The fpecific name was probably given it from its mixed refemblance of POLYGALA *alopecuroides* and *Heisteria*; not, as has been faid, from the manner in which the flowers and leaves are mixed together.

Native of the Cape of Good-Hope. Requires the protection of the greenhouse. Introduced by Mr. F. MASSON, in 1789. Communicated by Mess.

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[1715]

POLYGALA STIPULACEA. STIPULED MILK-WORT.

Class and Order.

DIADELPHIA OCTANDRIA.

Generic Character.

Cal. 5-phyllus : foliolis duobus alæformibus, coloratis. Legumen obcordatum, biloculare.

Specific Character and Synonyms.

- POLYGALA *flipulacea*; floribus imberbibus axillaribus fubfolitariis foliis fafciculatis teretibus mucronulatis fubternis, flipula concava obtufiffima.
- POLYGALA *flipulacea*; floribus imberbibus lateralibus, caule fuffruticofo, foliis ternis linearibus acutis. Linn. Mant. 260. Burm. Prod. 20. Willd. Sp. Pl. 3. p. 892. Hort. Kew. ed. alt. 4. p. 246.
- POLYGALA *flipulacea*; floribus imberbibus lateralibus, foliis folitariis filiformibus mucronatis glabris. *Thunb. Prod.* 121? HEISTERIA *mitior. Berg. Cap.* 187.
- SPARTIUM africanum frutescens, ericæfolio. Com. Hort. 2. p. 193. t. 97.
- SUFFRUTEX ericæ forma, flore rubro elegantiffimo. Seb. Mus. 2. p. 63. t. 62. f. 8.

DESCR. Stem shrubby: branches short, rigid. Leaves in fascicles, more usually four together than three, rounded, thickened upwards, blunt-pointed with a minute oblique mucro. Each fascicle is supported by a short, thick, blunt, hollowed stipule. Calyx five-leaved : leasset lanceolate, involving one another without any lateral petal-like expansion. Flowers axillary, growing singly or two together, of the brightess purple colour colour variegated with white. Corolla very like that of mixta, but the alæ are tipped with purple, and the appendices of the carina are much more brilliant. The germen in this fpecies, in mixta, in Heisteria, and probably in the whole fection, except P. Chamæbuxus, is terminated with four tooth-like proceffes. This character, together with the want of the petal-like expanfion of the calyx, feem to us to have been fufficient to reftore LINNÆUS'S original genus of HEISTERIA.

The fynonym always quoted from THUNBERG is rendered doubtful, by his defcribing the leaves as being folitary, filiform, and acute; which terms are in no refpect applicable to our plant.

A hardy greenhouse shrub; native of the Cape of Good-Hope. Flowers almost throughout the year. Introduced in 1791. Communicated by Mess. Loddiges and Son.

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[1716]

VERBESINA ALATA. WING-STALKED VERBESINA.

Class and Order.

SYNGENESIA POLYGAMIA SUPERFLUA.

Generic Character.

Recept. paleaceum. Pappus aristatus. Cal. duplici ordine. Flosculi radii circiter 5.

Specific Character and Synonyms.

- VERBESINA alata; foliis alternis decurrentibus undulatis obtufis. Willd. Sp. Pl. 3. p. 2221. Enum. 917. Hort. Kew. ed. alt. 5. p. 120. Schkuhr handb. 3. p. 145. t. 256. Mart. Mil. Diet. n. 1. Gært. Fruet. 2. 457. t. 171. Swartz Obf. 313. Kniph. Cent. 4. No. 93.
- VERBESINA foliis oblongo-ovatis fubdentatis recurrentibus, floribus remotis terminalibus. Brown Jam. 319.
- CANNABIS indica, foliis integris, alato caule. Magn. Hort. 40. ic.
- CHRYSANTHEMUM cannabinum americanum alatum, flore aphyllo globofo aurantio, baccharidis folio. Sloane Hift. 1. 261. Commel. Hort. 1. p. 5. t. 3.

CHRYSANTHEMUM curaffavicum alato caule floribus aurantiis. Herm. Parad. 125. ic. Morif. Hift. 3. p. 25. n. 87.

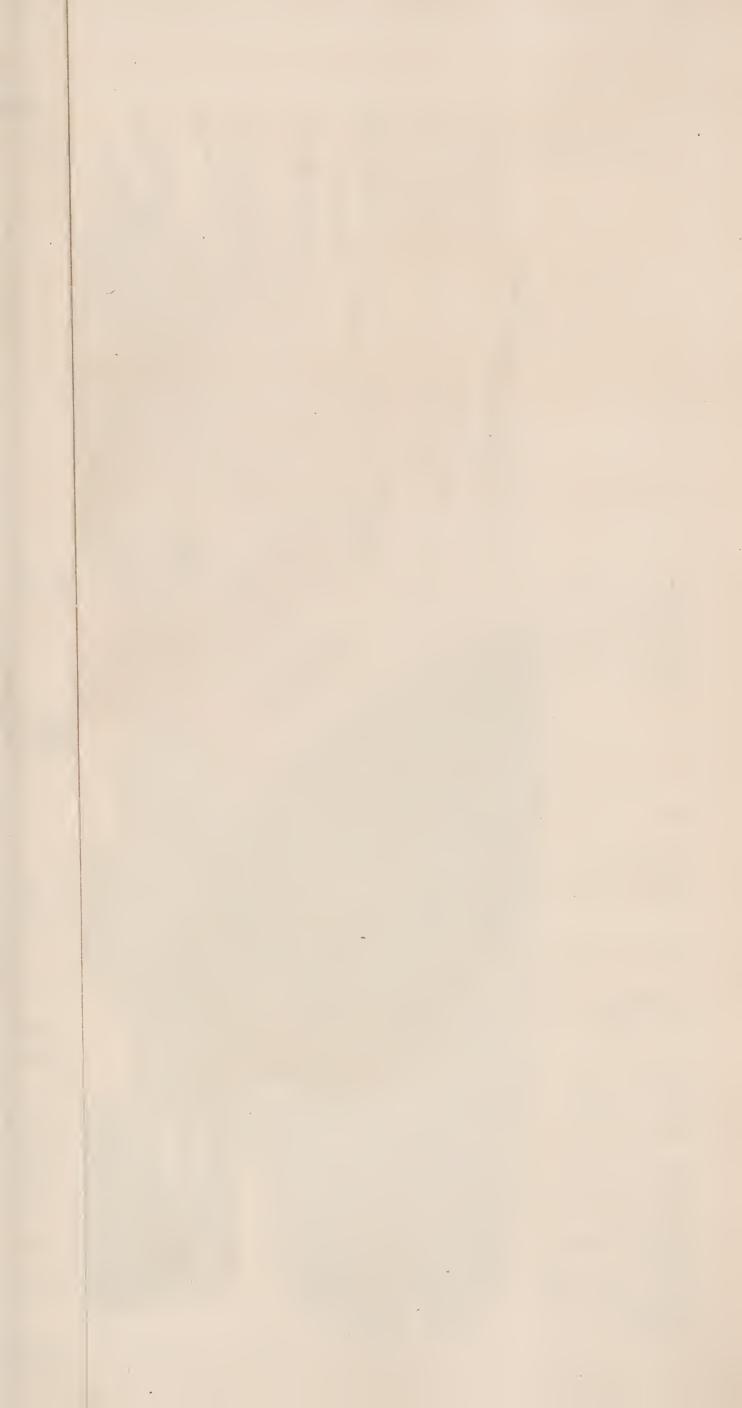
CHRYSANTHEMUM americanum bidens alatum, flore parvo aurantiaco. Pluk. Alm. 100. t. 84. f. 3.

CHRYSANTHEMUM conyzoide curaffavicum, abrotani feminæ flore aurantio. Volk. Norib. 106. ic.

VERBESINA alata differs from the reft of the genus not only in habit, but in having numerous florets in the radius, although these are so floret that at first fight the flower appears to have no radius at all; and also in having the seeds marginated with a white white membrane, with one arista, hooked at the point and longer than the other.

When first raised from seeds, the whole plant is hoary; but on the second year, the hoarines is deposited, and the colour of the leaves becomes of a fine dark green, which, contrasted with the brilliant orange-coloured flowers, adds much to the pleasing effect. So that those who treat it as an annual plant, never see it in its most perfect state.

Native of South-America and the West-Indies. Requires to be kept in the store. Flowers most part of the summer. Cultivated, as we learn from MORISON, in the Botanic Garden at Oxford, in 1699. Our drawing was taken at the Right Hon. Lord HOLLAND's, in August 1812.





[1717]

PROTEA LATIFOLIA. RAYED-FLOWERED PROTEA.

Class and Order.

TETRANDRIA MONOGYNIA.

Generic Character.-Vide No. 1713.

Specific Character and Synonyms.

PROTEA latifolia; foliis late-ovatis femicordatis feffilibus, involucro fericeo tomentofo; bracteis interioribus angustatis apice dilatato barbato, corolla tomentosa: aristis hirsutis longitudine laminarum, stylo pubescenti. Brown in Transl. Linn. Soc. v. 10. P. 75

PROTEA radiata. Bot. Repos. 646. ERODENDRUM eximium. Salisb. et Knight Prot. 41?

Our drawing of this beautiful species of PROTEA was taken at Mr. KNIGHT'S Exotic Nursery, in the King's-Road, Little Chelsea, in August 1811.

A variety, with greenish white flowers, is cultivated at the Hammersmith Nursery, Mess. LEE and KENNEDY.

The Proteas are much admired for the variety, fingularity, and frequently the fplendour of their flowers; the beauty of which confifts chiefly in the involucrum.

These plants have generally been confidered as very difficult of propagation, and not less fo of prefervation. But our modern cultivators have arrived at a better mode of treatment than was known in the days of PHILIP MILLER. Mr. JOSEPH KNIGHT, in an Essay on the Cultivation of the Natural Order of Proteæ, has given very full directions for their management; and still more ample details may be found in the fecond edition of the Exotic Gardener, by J. CUSHING, foreman to Messay LEE and KENNEDY. We are obliged for the following fatisfactory factory mode of managing them, to Mr. R. Sweer, late of the Stockwell Nurfery, where we have observed these plants to look remarkably well.

Cultivation of the Natural Order of PROTEACE Æ.

In the first place, it is neceffary that the pots should be well drained; for which purpose, place over the hole in the bottom a piece of potsherd, then place another piece against it, so as to leave a hollow; after that put in a handful of potsherd, broken into pieces not larger than peas, and over these pieces still smaller, till the pot is nearly one third-part full. This is applicable to the management of plants of almost every family; for, by these means, the water soaks gradually off, and the mould is not allowed to get fodden.

In the next place, for the genera Protea, Leucadendron, Leucofpermum, Spatalla, Sorocephalus, and Aulax; (vide BROWN'S Proteaceæ in the Transactions of the Linnean Society, vol. 10.) all the species delight in a composition of rather more than onethird fand, and the rest light loam without any peat. The genera Serruria, Nivenia, Grevillea, Hakea, Petrophila, Isopogon, Banksia, Dryandra, Lomatia, and Telopea, succeed best in three parts of peat, two parts loam, and one part fand. When potted, they do not require any particular care more than other greenhouse plants, except to let them have plenty of air, to avoid letting them flag for want of water, and never to water them over the leaves in cloudy weather.

With regard to their propagation, let the wood be first ripened, then take off the cuttings as nearly as possible between the last and prefent year's shoot, pare them smooth, and plant them in a pot of fand, not too close together, as they are apt to get the damp amongst them, which readily spreads from one to another. Let the pots be then placed in the propagationhouse, watering them whenever they want it, but not over the leaves. In this way Mr. Sweet has never found any of the supposed difficulty in striking any of this natural order; and even Telopea, the Embothrium *speciofilfimum* of the Botanical Magazine, he finds to strike as readily as any.





[1718]

PELARGONIUM RADICATUM. FLESHY FRINGED-LEAVED CRANE'S-BILL.

Class and Order.

MONADELPHIA PENTANDRIA.

Generic Character.

Cal. 5-partitus : lacinia fuprema definente in tubulum capillarem, nectariferum, fecus pedunculum decurrentem. Cor. 5-petala, irregularis. Filam. 10, inæqualia, quorum 3-6 caftrata. Arilli 5, monofpermi, ariftati, ad bafin receptaculi roftrati ariftis fpiralibus introrfum barbatis.

Specific Character and Synonyms.

PELARGONIUM radicatum; (acaulis radice rapacea) umbella fimplici, foliis ellipticis integerrimis ciliatis, petalis fuperioribus bafi macula duplici interrupte lineari notatis. Hort. Kew. ed. alt. 4. p. 160. Epit. 209.

PELARGONIUM radicatum ; umbellis fimplicibus, foliis ovali-oblongis, integerrimis, glabris, margine ciliatis, floribus pentandris; petalis retufis. Vent. Hort. Malm. 65.
 GERANIUM ciliatum. And. Repof. 247.

Monf. VENTENAT, who has given an excellent figure of this plant in the Jardin de Malmaison, confiders it to be diftinct from the PELARGONIUM *ciliatum* of L'HERETIER, and has been followed by Mr. DRYANDER in the new edition of the Hortus Kewensis. The *ciliatum* of CAVANILLES and of JACQUIN, are also supposed by VENTENAT to be at the same time different from our plant and from one another. The latter differs remarkably in the strong hairines of the leaves over both furfaces.

This fpecies, as is the cafe with most, if not with all in the turnip-rooted divisions, has only five fertile stamens, and the pedicles pedicles are erect while the flowers are in bud as well as when expanded : characters which, we have before remarked, feem fufficient to feparate them into a diftinct genus.

A tender greenhouse plant. Native of the Cape of Good Hope. Communicated by Mr. KNIGHT, of the Exotic Nursery, and also by Mess. Colville and Son, of the King's-Road, who first introduced it in 1802. Flowers in June and July.

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[1719]

SPRENGELIA INCARNATA. FLESH-COLOURED SPRENGELIA.

Class and Order.

PENTANDRIA MONOGYNIA.

Generic Character.

Cal. 5-partitus, perfistens. Cor. 5-partita. Stam. receptaculo inferta. Caps. 5-locularis, 5-valvis: diffepimentis e medio valvularum, placentis columnæ centrali adnatis.

Specific Name and Synonyms.

 SPRENGELIA incarnata; antheris connatis barbatis, calycibus coloratis, foliis longe acuminatis. Brown Prod.
 P. 555.
 SPRENGELIA incarnata. Smith's Tracts, 272. t. 2. et in Act.

Stockh. anno 1794, p. 260. t. 8. Bot. Repof. 2. Willd. Sp. Pl. 1. p. 833. Hort. Kew. ed. alt. 1. p. 320. Epit. 45.

The SPRENGELIA incarnata is a very ornamental flowering fhrub of fmall ftature, first described and figured by Sir JAMES ED. SMITH, in the Transactions of the Royal Academy of Sciences at Stockholm, and afterwards in English, with a figure from a living specimen, in a volume of tracts relating to natural history, naming it in honour of CHRISTIAN CONRAD SPREN-GEL, Profession of Botany at Halle.

The flowers, which are very numerous, are produced at the extremities of the fhort branches, and are of long continuance. The calyx and corolla being much alike, and the laciniæ of the latter, which are nearly white, with a pink tinge, exactly alternating with the fegments of the calyx, of a deeper role colour, give a brilliancy to what might otherwife be confidered as rather an infignificant flower,

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This plant is well defcribed by SMITH; but, according to BROWN, the corolla is at first monopetalous, with a very short tube, though it is finally divided to the base. The latter author has described two species, in the first of which only, our present plant, the anthers are coherent; a circumstance which entirely destroys the value of this character.

Native of New South-Wales. Is readily propagated by cuttings; and requires the fame treatment as the Cape Heaths. Introduced in 1793, by Meffrs. LEE and KENNEDY. Communicated by Mr. R. Sweet.





[1720]

ERICA LAWSONI. LAWSON'S HEATH.

Class and Order.

OCTANDRIA MONOGYNIA.

Generic Character.

Cal. 4-phyllus. Cor. perfistens: limbo 4-fido. Antheræ ante anthefin per foramina 2 lateralia connexæ. Cap/. 4-8-locularis, 4-8-valvis.

Specific Character and Synonyms.

- Sect. III. Conifloræ grandes. Corollæ inferne dilatatæ semuncia longiores. B. Antheræ muticæ Flores terminales.
- ERICA Lawsoni; bracteis calyci proximis, foliolis calycinis fubulatis, stigmate exserto, foliis ciliatis sloribusque quaternis.

DESCR. Stem a low, upright, pyramidal, branched shrub. Leaves four together, oblong, ciliated at the edge with stiff short hairs, which are branched at the point of the leaf only, as far as we have observed, and there barely visible to the naked eye. Flowers, which are of a bright role colour, grow at the extremities of the branches, either fingly, or more generally four together; but on the leading branches, the fhoot growing out beyond them, the flowers become in confequence axillary. Calyx of four subulate leaflets, ciliated at the edge and coloured at the tip; bractes two, close to and like the calyx, but only half the length; there is a third at the base of the very short peduncle, but this we rather regard as the terminal leaf, from the axil of which the peduncle grows; nor is it coloured like the other two. Corolla urceolate : tube about an inch long, dilated and fomewhat diaphanous at the bafe, contracted upwards: lacinize of the limb ovate-acute with the margins more or lefs rolled rolled inwards. *Filaments* almost as fine as a spider's thread: anthers beardless, within the tube. *Germen* oblong, without glands at the base: *stigma* dark purple, nearly globular, without the tube.

This plant has very near affinity with ERICA tenuiflora of the Hortus Kewenfis, from which it differs, not only in the colour of its flowers, but in having ciliated leaves and an exferted ftigma. In many refpects it corresponds also with ERICA ferrulata, though the form of the corolla removes it into a different fection.

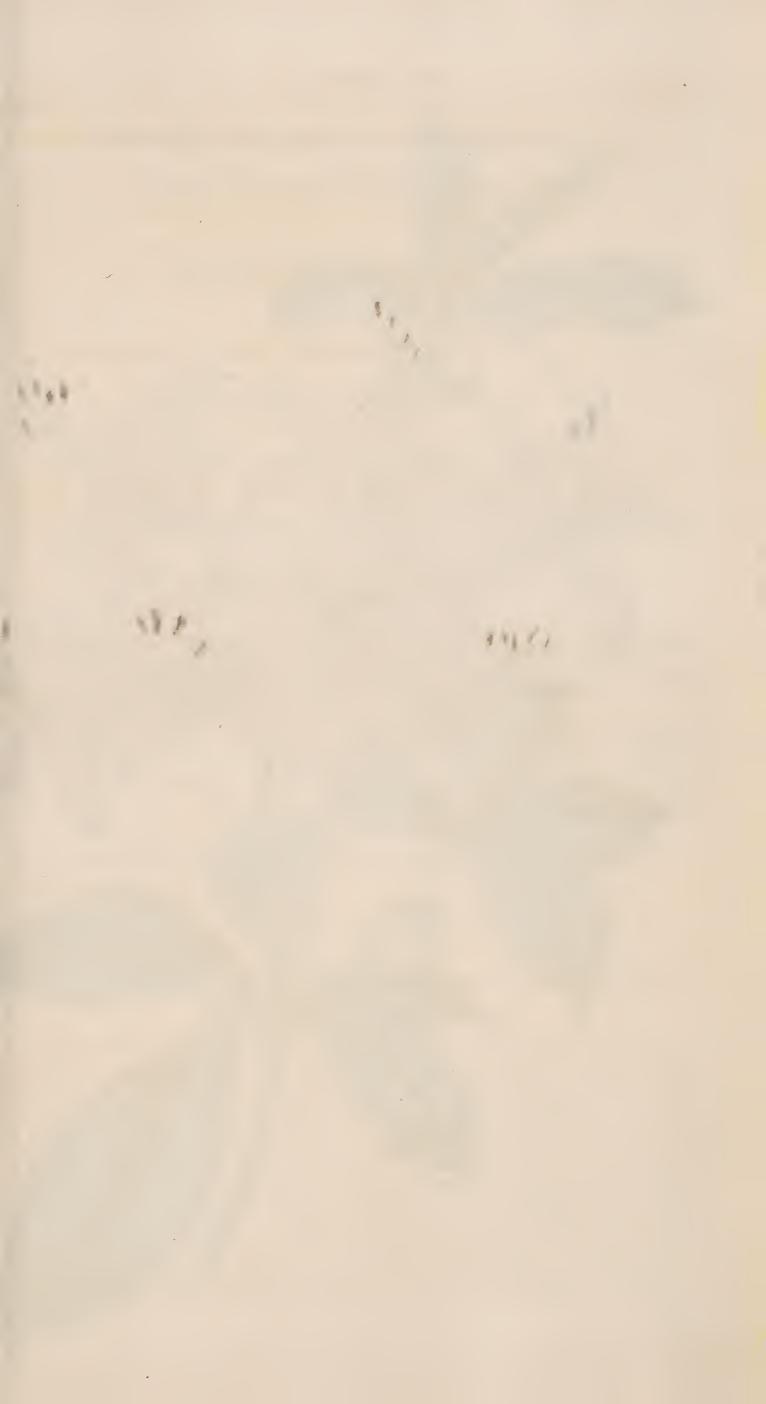
Our drawing was made from a plant communicated by Mr. R. SWEET. We have been favoured alfo with a fpecimen of the fame, from Meffrs. LEE and KENNEDY, under the name that we have adopted, and from which our defcription was taken.

Native of the Cape of Good Hope. Flowers in May, June, and July.

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[1721]

AZALEA CALENDULACEA (B.) CROCEA. ORANGE-COLOURED AZALEA.

Class and Order.

PENTANDRIA MONOGYNIA.

Generic Character.

Cor. campanulata. Stam. receptaculo inferta. Capf. 5-locularis.

Specific Character and Synonyms.

- AZALEA calendulacea; (subnudiflora) foliis oblongo-ovalibus ciliatis: adultis hirfutis, corollæ tubo laciniis breviore pilofo fubviscido, calyce villoso.
- AZALEA calendulacea; (fubnudiflora) foliis oblongis utrinque pubefcentibus: adultis hirfutis, floribus amplis non vifcofis, calycis dentibus oblongis, corollæ tubo hirfuto laciniis breviore. Purfb Fl. Am. Sept. 151. Michaux Fl. Am. Bor. 1. p. 151.

(a.) flammea floribus flammeo-calendulaceis.

(β.) crocea; floribus croceis.

AZALEA calendulacea. Hort. Kew. Epit. inter addenda.

The flowers of this variety refemble very much those of AZALEA pontica, but are without scent. They are confiderably larger than any of the varieties of AZALEA nudiflora; and the plant itself forms a lostier shrub. In a genus which is numerous and so exceedingly disposed to run into varieties, it is extremely difficult to find good specific characters; the hairy calyx and tube shorter than the border of the corolla, distinguish it from coccinea, (No. 180.) to which in foliage it is most nearly allied. The flower is not entirely free from clammines. The flamecoloured variety is faid by Mr. PURSH to be, without exception,

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the handsomest shrub in North-America. This author refers to BARTRAM's Travels, p. 321, where we find a shrub spoken of with flowers like a RHODODENDRON, but in fruit more refembling an AZALEA. But this would appear to be very different from either of the above varieties, as the corolla is faid to be white with narrow fegments. Mr. WILLIAM BARTRAM, however, and probably with justice, claims the first discovery of this plant, as appears by a specimen in possession of Sir JOSEPH BANKS, collected by that traveller, about the year 1774, accompanied with remarks; in which, in his usual florid style, he observes, that " it is the most brilliant, shewy, and gay flowering shrub, perhaps, in the world; it grows four, fix, or eight feet high, increases greatly by fuckers, and the flowers make a most splendid show in the vast plains, and on the sides of the hills, in West-Georgia and lower Cherokee country, in the months of April and May. The flowers are of all shades, from a pale cream colour to a fplendid golden yellow, orange, and most perfect scarlet or flame colour; and all these colours are fometimes feen on different branches of the fame plant, as well as on separate plants, but a rose-blush or purple tint never occurs in the flowers of this species."

Our drawing was made in the beginning of June 1812, from a plant brought over by Mr. LYONS; we received fpecimens alfo from Meffrs. FRASER'S American Nurfery, and from Meffrs. LODDIGES and SONS.

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[1722]

HEDYSARUM BUPLEURIFOLIUM. HARES-EAR-LEAVED HEDYSARUM.

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Class and Order.

DIADELPHIA DECANDRIA.

Generic Charaster.

Cal. 5-fidus. Cor. carina transverse obtusa. Lomentum articulis 1-spermis, compressis.

Specific Character and Synonyms.

HEDYSARUM bupleurifolium; foliis fimplicibus lanceolatis acutis, caule inermi, ftipulis fcariofis. Sp. Pl. 1051. Willd. 3. p. 1171. Hort. Kew. ed. alt. 4. p. 339. Roxb. Corom. 2. p. 50. t. 194.

ORNITHOPODIUM madaraspatanum, bupleurifolio. Petiv. Gaz. 18. t. 11. f. 12.

HEDYSARUM gramineum. Willd. Sp. Pl. 3. 1172? Retz. Obs. 5. p. 26. Wendl. Hort. Herrenbus. 1. p. 7. t. 5.

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WILLDENOW has expressed a doubt whether the figures of PETIVER and PLUKENET do not belong to gramineum rather than to bupleurifolium. The latter was probably intended for neither, but is too bad to be referred with certainty to any thing; but PETIVER'S is really good, for a mere outline, and undoubtedly represents our plant. HEDYSARUM gramineum in Hortus Herrenhusen, does not appear to be different; and RETZIUS'S description of the same accords both with Rox-BURCH'S and our figure of bupleurifolium. We cannot but conclude therefore that these plants in reality make but one species, and that gramineum ought to be expunged from the system.

A fmall perennial woody fpecies. Native of the Eaft-Indies; where it grows, according to ROXBURGH, among long grafs in dry ground; flowering during the wet and cold feafons. With us it requires the heat of the bark flove. Propagated by feeds.









[1723]

CAMPANULA PUNCTATA. SPOTTED BELL-FLOWER.

Class and Order.

PENTANDRIA MONOGYNIA.

Generic Character.

Cor. campanulata, fundo clauso valvis staministeris. Stigma trifidum. Caps. infera, poris lateralibus dehiscens.

Specific Character and Synonyms.

CAMPANULA punctata; capíulis trilocularibus obtectis, caule fimplici erecto foliofo, foliis fubpetiolatis, floribus nutantibus. Willd. Sp. Pl. 1. p. 907.

CAMPANULA *punctata*; hirfuta, foliis radicalibus petiolatis ovatis acutis ferratis, floribus cernuis interne punctatis villofis. Lamarck Encyc. 1. 579.

CAMPANULA calycibus e tergo lamellis quinque notatis, pedunculis unifloris. Gmel. Sib. 3. p. 155. t. 30.

The CAMPANULA punctata is well reprefented by GMELIN, in the third volume of the Flora Sibirica; but was never taken up by LINNÆUS, nor, we believe, did it ever appear in any general fystem, till LAMARCK inferted it in the Encyclopedie Botanique.

The fpotting of the corolla, being on the infide, fhews through rather faintly, but more evidently, when dried, than in the recent flower.

We were favoured with a living specimen of this very rare plant, the latter-end of February, by our friend A. B. LAM-BERT, Esq. who raised it from Siberian seeds, at his seat at Boyton. A hardy perennial. Native of Siberia; growing in the mountainous open country.



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SILENE REGIA. SPLENDID CATCH-FLY.

Class and Order.

DECANDRIA TRIGYNIA.

Generic Character.

Cal. monophyllus, ventricofus. Petala 5, unguiculata. Capf. fupera, femitrilocularis, apice dehifcens, polyfperma.

Specific Character and Synonyms.

 SILENE regia, (erecta, viscoso-pubescens) calycibus floris cylindricis, petalis lanceolatis indivisis, genitalibus exertis.
 SILENE virginica; var. illinoensis. Michaux Fl. Bor. Am. 1. p. 272. ?
 MUSCIPULA regia, Bannisterii. Petiv. Herb. Virg. ?

The SILENE regia, though nearly related to virginica, muft, we apprehend, be confidered as a diffinct fpecies; for the latter is defcribed as being decumbent, and having bifid petals. It may perhaps be the variety found by MICHAUX in the Illinois country; and poffibly it may have been the fame that BAN-NISTER fent a defign of to the Bifhop of London. Whether it be fo or not, his name of regia cannot be badly applied to the most fplendid plant of the genus. The flowers are reprefented to us as rivalling in brilliancy the LOBELIA fulgens, a colour fcarcely to be imitated by art.

We had not the opportunity of feeing this plant whilft living, but upon examining the dried fpecimens in Mr. LAMBERT's herbarium, we find that the petals are fometimes emarginate.

Native of North-America. Found by Mr. NUTTAL, growing fpontaneoufly in great abundance, in the environs of St. Louis, on the Miffifippi; from whofe feeds our plant was raifed in the garden of A. B. LAMBERT, Efq. at Boyton, where it grew to the height of between two and three feet.



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[1725]

SWAINSONA CORONILLIFOLIA. PURPLE-

FLOWERED SWAINSONA.

Class and Order.

DIADELPHIA DECANDRIA.

Generic Character.

Cal. 5-dentatus. Vexillum explanatum, majus Carina obtufa. Stigma terminale. Stylus postice longitudinaliter barbatus; antice imberbis. Legumen turgidum (non vesicarium) BROWN.—Swainsona, SALISB.—Loxidium, VENTEN. dec. gen. nov.

Specific Character and Synonyms.

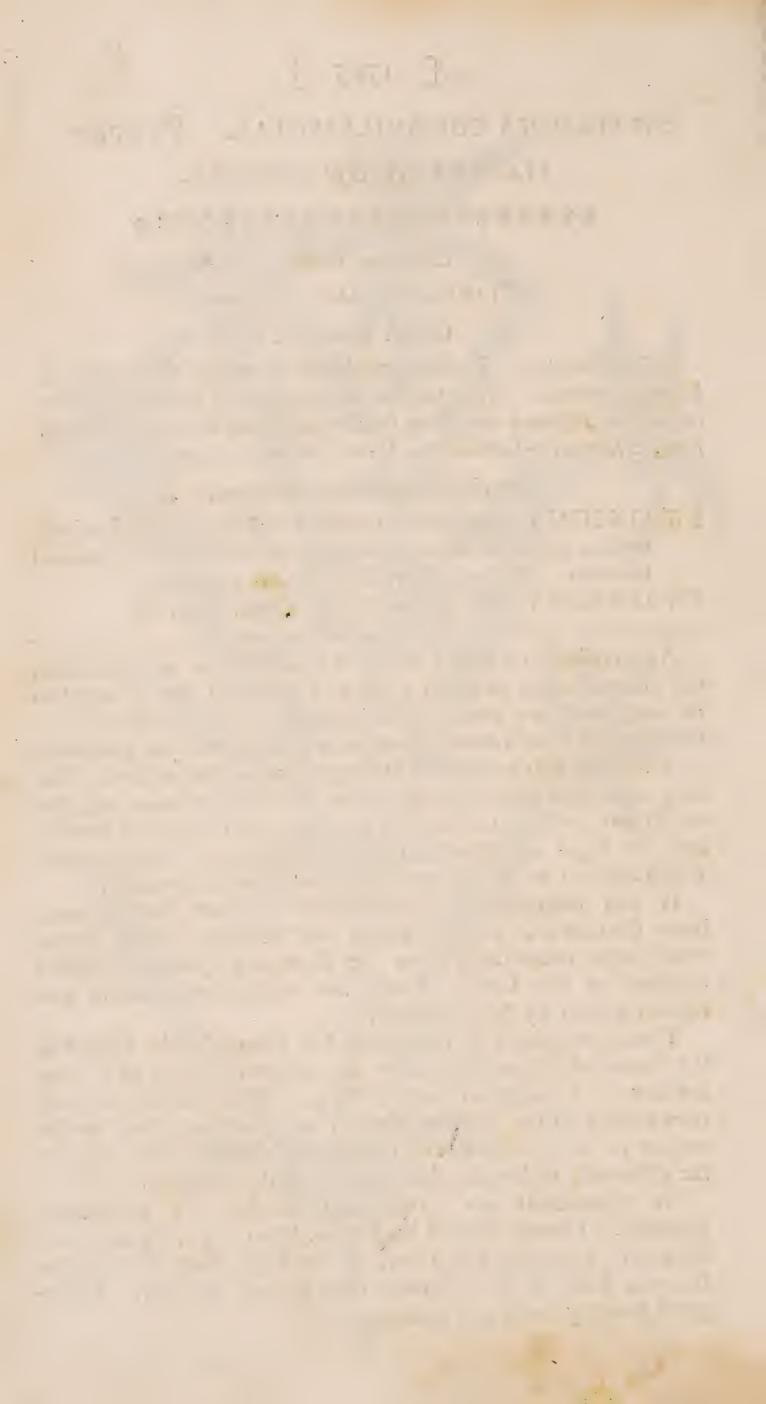
 SWAINSONA coronillifolia; vexillo bicallofo, caule fuffruticofo erecto, pedicello leguminis filamentis perfiftentibus (parum) breviore. Brown in Hort. Kew. ed. alt. 4. p. 327.
 SWAINSONA coronillæfolia. Salifb. Parad. Lond. 28.

As this plant is a native of New South-Wales in Auftralafia, this circumftance, in itfelf, leads to a fufpicion that it ought to be confidered as a genus diffinct from COLUTEA, otherwife we own that we fhould hardly have been fatisfied with the characters by which the two genera are attempted to be diffinguifhed. The only contrafted points given in the Hortus Kewensis are, that the ftigma in SWAINSONA is terminal, in COLUTEA lateral; and the flight difference in the confistence of the Legumen, which appears to us not very remarkable after maturity.

It was undoubtedly impoffible to feparate SWAINSONA from COLUTEA, whilft *fruticofa* and *berbacea*, which fwerve much more remarkably from the European fpecies, remained attached to the latter. Thefe are confequently raifed into diftinct genera by Mr. BROWN.

The other fpecies of this genus has been already figured in the Botanical Magazine, under the name of COLUTEA (now SWAINSONA) galegifolia (vide N^{m.} 792.) Both fpecies, the only ones known in our gardens, though eafily diftinguished by the colour of their flowers, are botanically characterized, only by the difference of length of the pedicle of the feed-pod.

An ornamental low greenhoufe fhrub, with herbaceous branches. Communicated by Meffrs. WHITLEY, BRAME, and MILNE. Introduced in 1802, by the Right Hon. Sir JOSEPH BANKS, Bart. K. B. Flowers most part of the year. Propagated both by feeds and cuttings.



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